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Washington, D. C.

Issued December 29, 1924
Revised April, 1925

DEVELOPMENT AND PRESENT STATUS OF FARMERS' COOPERATIVE BUSINESS ORGANIZATIONS

By

R. H. ELSWORTH, Specialist in Agricultural Cooperation
Bureau of Agricultural Economics

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THREE NATION-WIDE SURVEYS

Three nation-wide surveys have been made to determine the extent and intensity of the agricultural cooperative movement. The first of these was begun in 1913 and was continued through 1915, when data for the years 1912, 1913, 1914, and 1915 were collected. Reports were obtained from 5,424 organizations and this collection of data was the basis of the statistical portion of Department of Agriculture Bulletin No. 547, published in 1917.

In 1919, data relative to the extent of cooperative buying and selling by farmers were collected as a part of the agricultural census, made by the Bureau of the Census. These were so compiled as to show the number of farms in each State reporting sales or purchases, and the amount of business involved in these transactions. As the census enumerators covered every township in the United States, the data, so far as the items covered are concerned, are complete and are of great value in connection with statistical studies of the subject. Furthermore, the data make possible a comprehensive picture of the status of agricultural cooperation in 1919.

Early in 1922 the third survey of cooperative buying and selling was undertaken. This contemplated an enumeration and listing of all active farmers' business organizations by kinds of products handled and by States, cities, and villages. Sixty thousand individuals scattered through the 48 States, assisted in obtaining the

[1] Much of the work in connection with compiling the statistical tables was done by William H. Baker and Grace Wanstall.

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names and addresses of associations of farmers engaged in selling or buying or both. Approximately 40,000 names were reported. After the elimination of duplicates there remained between 25,000 and 30,000 names of associations.

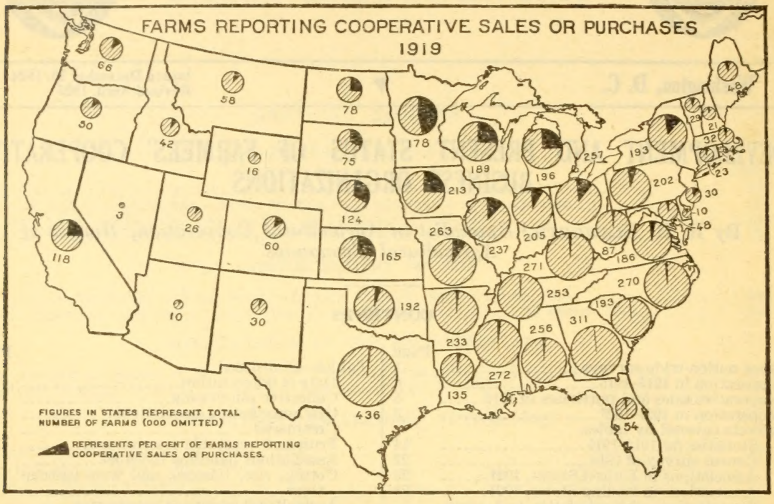

FIG. 1.—About a fourth of the farms in California, North Dakota, Kansas, Iowa, Wisconsin, and Michigan reported purchases or sales through cooperative associations in 1919, and considerably more than a fourth of the farms in Minnesota, South Dakota, and Nebraksa made similar reports. (See Table 5.)

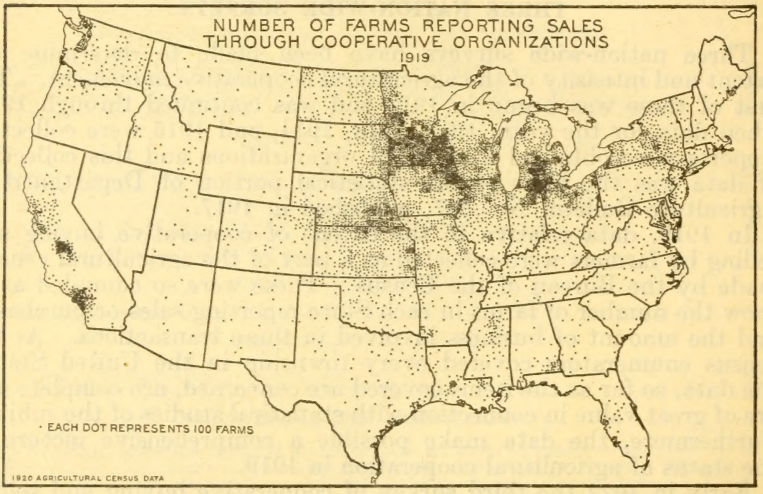

FIG. 2.—Cooperators were numerous in parts of Ohio, Michigan, Indiana, Illinois, Wisconsin, Iowa, Minnesota, Nebraska, and California in 1919; and cooperators were few in number in New England, the Southern States, and the Mountain States. (See Table 5.)

Subsequent follow-up work revealed that many organizations had been reported under two and three different names and some under four. Some of the associations reported were merely proposed organizations which had never been formed, and others had ceased

to function. As a result of a sifting process, extending over two years, and a continuous search for new associations, in March, 1924, the department files contained information regarding 10,160 active

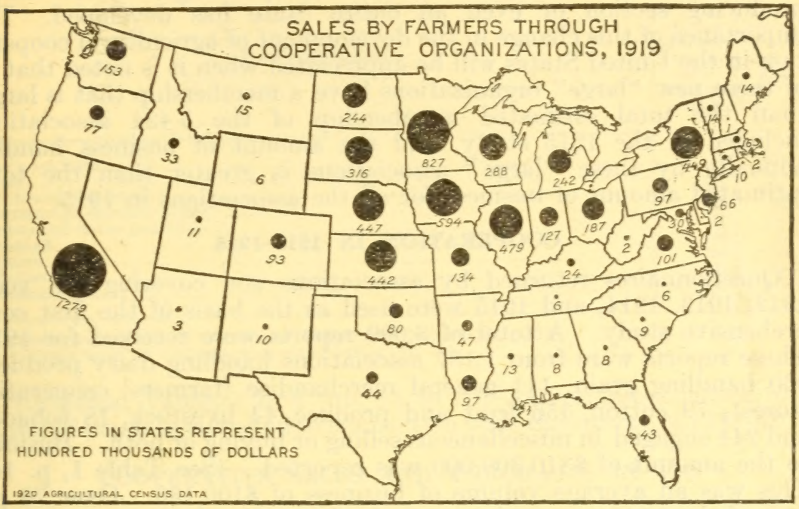

FIG. 3.—Sales by California farmers were greater than those by Minnesota and New York farmers combined. Most of the cooperative selling was done by the farmers in the North Central, the Middle Atlantic, and the Pacific States. (See Table 5.)

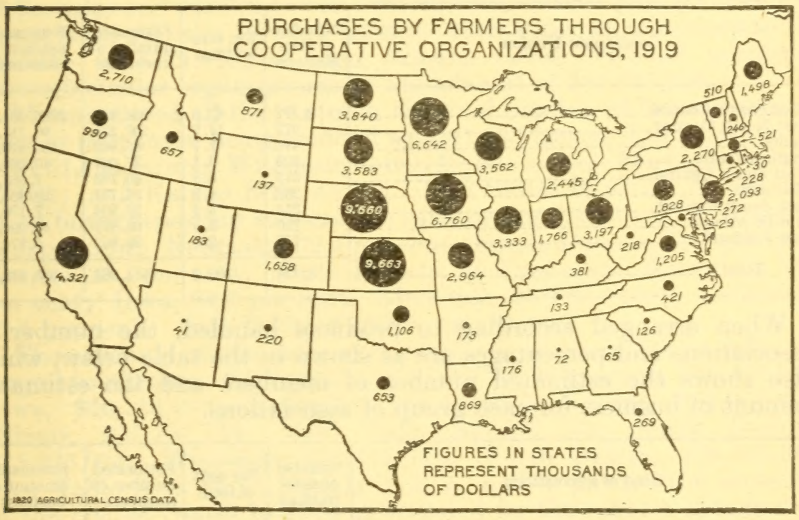

FIG. 4.—Kansas farmers made heavier purchases through cooperative associations than the farmers of any other State; Nebraska came close on the heels of Kansas and Iowa followed Nebraska. (See Table 5.)

organizations. These data, classified and tabulated, fill a majority of the following pages.

The character of the agricultural cooperative movement has been undergoing a change since about 1920. Prior to that year farmers' business organizations were mostly local enterprises with occasional

federations of locals for selling purposes. Both the total membership and the total amount of business were made up of a large number of relatively small items.

Since 1920 the "large" organization operating over an entire producing section or even an entire State has developed. The importance of this change in the development of agricultural cooperation in the United States will be appreciated when it is noted that 50 of these new "large" organizations have a membership that is larger than the total estimated membership of the 5,424 associations included in the 1915 study, and the amount of business handled annually by these "large" associations is greater than the total estimated amount of business for all the associations in 1915.

COOPERATION IN 1913–1915

Questionnaires returned by associations and covering the years 1912, 1913, 1914, and 1915 were used as the basis of the first comprehensive study. A total of 3,099 reports were received for 1913. These reports were from 1,187 associations handling dairy products, 960 handling grain, 111 general merchandise (farmers' cooperative stores), 79 cotton, 456 fruit and produce, 44 livestock, 18 tobacco, and 244 engaged in miscellaneous selling or buying or both. Business to the amount of $310,300,000 was reported. (See Table 1, p. 14.) This was an average volume of business of $100,133. Over 70 per cent of the 3,099 associations were in the 12 North Central States.

The 5,424 included in the statistical tabulations for 1915 were distributed through the geographic divisions as follows:

Geographic division	Number of associations	Per cent of total	Estimated number of members	Estimated amount of business
West North Central	2,577	47.5	254,425	$286,534,775
East North Central	973	17.9	107,331	90,113,770
Pacific	416	7.7	65,950	150,510,979
South Atlantic	329	6.1	37,097	10,269,102
West South Central	315	5.8	30,793	7,683,734
Mountain	232	4.3	34,731	20,485,811
East South Central	215	3.9	35,834	7,170,323
Middle Atlantic	210	3.9	63,971	56,096,060
New England	157	2.9	20,952	6,974,130
Total	5,424	100.0	651,084	635,838,684

When arranged according to products handled, the number of associations and percentages are as shown in the table below, which also shows the estimated number of members and the estimated amount of business for each group of associations.

Kind of associations	Number of associations	Per cent of total	Estimated number of members [1]	Estimated amount of business [2]
Dairy products	1,708	31.5	140,567	$89,061,370
Grain	1,637	30.2	166,726	289,689,218
Fruits and vegetables	871	16.0	109,916	201,542,646
Merchandise (farmers' stores)	275	5.1	59,503	11,677,355
Cotton and cotton products	213	3.9	18,404	1,502,007
Livestock	96	1.8	13,438	5,623,800
Tobacco	43	.8	17,849	6,450,000
All others	581	10.7	124,681	30,292,288
Total	5,424	100.0	651,084	635,838,684

[1] Table 3, p. 18. [2] Table 4, p. 20.

The average number of members per association and the average amount of business per association for the groups of associations handling the various products have been determined to be as follows:

Kind of association	Average number of members per association, 1915 [1]	Average amount of business per association, 1912–1915 [2]
Dairy products	83	$48,806
Grain	102	143,268
Fruits and vegetables	124	161,458
Merchandise (farmers' stores)	220	52,919
Cotton and cotton products	87	161,465
Livestock	140	98,777
Tobacco	336	156,890
All others	231	82,986
All associations	122	115,402

[1] From reports from 4,683 associations, Department Bulletin 547, p. 25.
[2] Averages based on 7,399 reports received during 1912–1915.

Statistical Tables 1 to 4 (pp. 14 to 20) contain in condensed form much of the data collected in connection with the survey of 1913–1915.

COOPERATIVE SALES AND PURCHASES IN 1919

Census data collected in 1919 give the number of farms in the United States that reported cooperative selling or purchasing as 624,527. This number was 9.7 per cent of all the farms. The amount of the sales and purchases was $806,599,308. Over 500,000 (511,383) farms reported sales through farmers' marketing organizations to the amount of $721,983,639, and 329,449 farms reported purchases through similar organizations to the amount of $84,615,669.

Minnesota led all the States in the total number of farms reporting sales or purchases, being credited with 81,145 farms; Iowa was second with 51,630 farms; Wisconsin third, 48,190 farms; Michigan fourth, 47,021; and Kansas fifth, 43,188. The States in which 20 per cent of all farms reporting cooperative sales or purchases are: Minnesota, 45.5 per cent; Nebraska, 32.4 per cent; South Dakota, 30.2 per cent; Kansas, 26.1 per cent; North Dakota, 25.5 per cent; Wisconsin, 25.5 per cent; Iowa, 24.2 per cent; Michigan, 23.9 per cent; California, 22.4 per cent. (See Tables 5 and 6, pp. 22, 24.)

The amounts of the sales and purchases in those States with the largest totals were: California, $132,312,110; Minnseota, $89,402,621; Iowa, $66,164,578; Nebraska, $54,415,247; Kansas, $53,954,008; Illinois, $51,254,154; New York, $47,177,223; South Dakota, $35,235,015; Wisconsin, $32,447,211; North Dakota, $28,325,369. (See Table 6, p. 24.) Figures 1, 2, 3, and 4 picture the situation in the United States in 1919 as revealed by the reports obtained by the census enumerators.

COOPERATION IN 1921–1924

The third survey was begun at about the time the Capper-Volstead cooperative law was enacted. (Capper-Volstead Act, Public No. 146. 67th Cong., approved, February 18, 1922.) At that time it

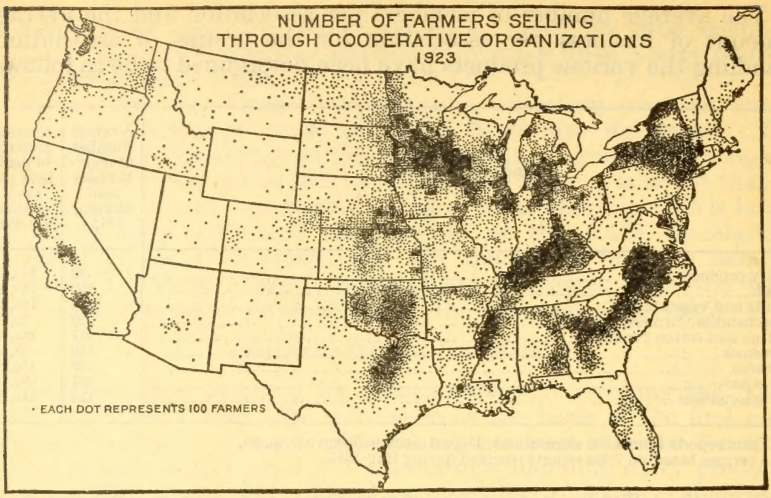

FIG. 5.—Recent development of the cotton, tobacco, grain, and milk marketing associations has completely changed the cooperative map of the United States as will be shown by comparison of this map with Figure 2

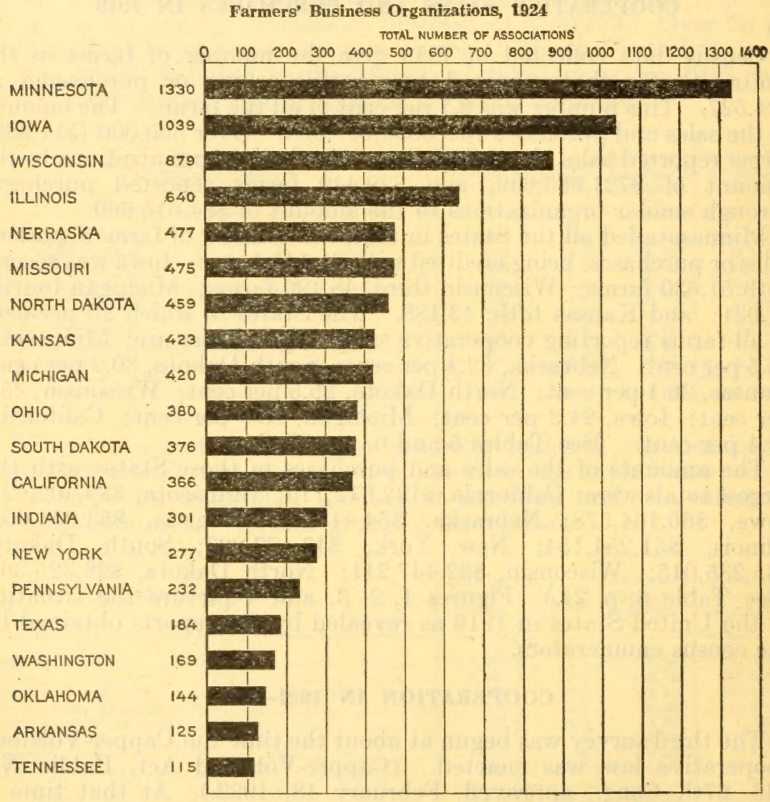

FIG. 6.—Minnesota leads all other States in regard to total number of associations; Iowa holds second place and Wisconsin third. (See Table 8.)

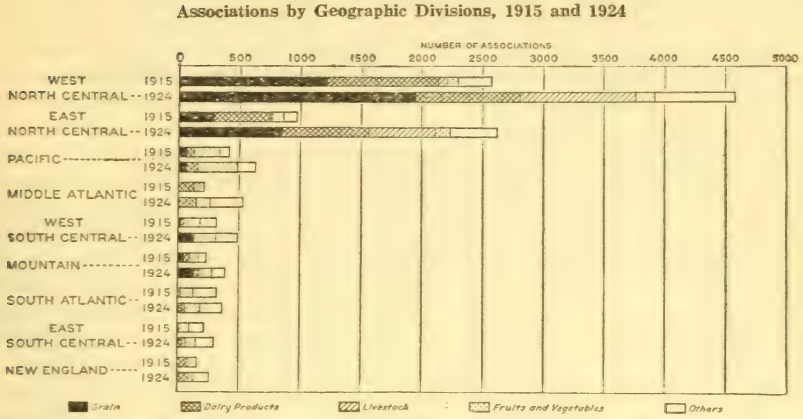

FIG. 7.—Sixty-five per cent of all associations in 1915 were in the 12 North Central States. In 1924 the proportion was 70 per cent. (See Tables 2 and 7.)

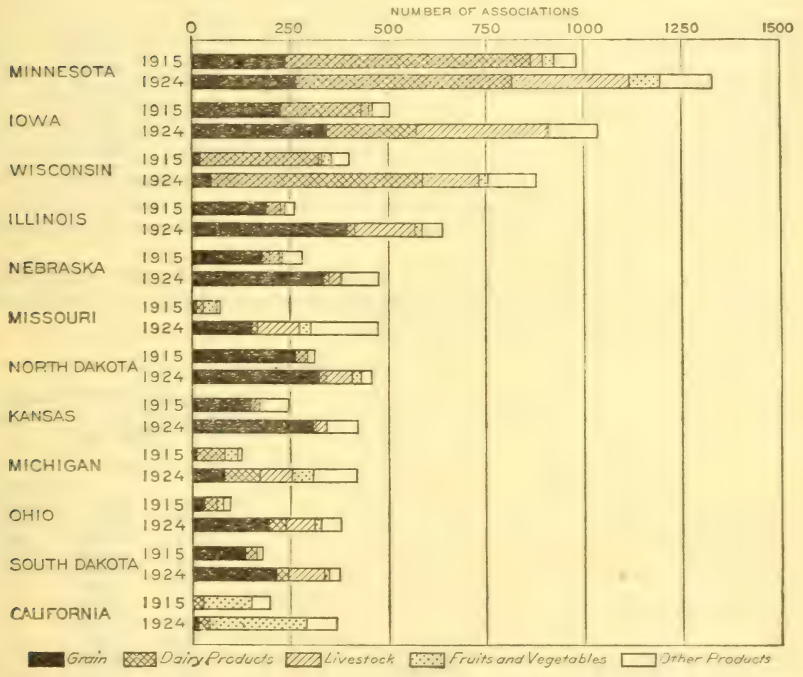

FIG. 8.—Minnesota led in number of associations in 1915 and 1924. The other leading States, in the order of importance, were Iowa, Wisconsin, and Illinois. (See Tables 3 and 8.)

was felt that there was need for definite information regarding the status of the agricultural cooperative movement in the various States in order that the Secretary of Agriculture might the more intelligently carry out the provisions of the law as occasion required.

In planning the survey more attention was given than formerly to obtaining information regarding the legal status of existing organizations. A greater amount of follow-up work with supplemental questionnaires and personal letters was conducted in connection with the 1922–1924 survey than had previously been possible, and as a result a much larger quantity of information was obtained, classified, and tabulated. A portion of the data collected is made available in the tables comprising the major portion of this bulletin.

At the end of March, 1924, reports had been received from 10,160 associations. In addition to certain basic tables given in the following pages, a number of tables give comparisons for different years. The data given are sufficient for the compiling of many such tables by those who wish to make a more intensive study of the subject.

The 10,160 associations included in the 1924 study were distributed through the nine geographic divisions as indicated in the following table which also shows estimated amount of business for 1923:

Geographic divisions	Associations		Estimated business, 1923	
	Number	Per cent	Amount	Per cent
West North Central	4,579	45.1	$635,800,000	28.9
East North Central	2,620	25.8	338,800,000	15.4
Pacific	634	6.2	413,600,000	18.8
Middle Atlantic	531	5.2	275,000,000	12.5
West South Central	492	4.9	92,400,000	4.2
Mountain	387	3.8	41,800,000	1.9
South Atlantic	363	3.6	145,200,000	6.6
East South Central	298	2.9	189,200,000	8.6
New England	256	2.5	68,200,000	3.1
United States	10,160	100.0	[1] 2,200,000,000	100.0

[1] Not including $200,000,000 of business by cooperative selling agencies in 19 livestock terminal markets.

Classified according to kind of associations the figures indicating number of associations, estimated number of members, and estimated amount of business are as given below:

Kind	Number reporting, 1924	Estimated number of members, April, 1924	Estimated business, 1923
			Thousands
Cotton	107	250,000	$100,000
Dairy products	1,966	200,000	400,000
Fruits and vegetables	1,232	200,000	300,000
Grain	3,134	400,000	600,000
Livestock	1,598	250,000	[1] 250,000
Nuts	51	50,000	50,000
Poultry and poultry products	56	15,000	50,000
Tobacco	25	290,000	150,000
Wool	115	50,000	20,000
Miscellaneous selling	729	70,000	160,000
Merchandise (farmers' stores)	717	150,000	50,000
Collective buying	430	100,000	70,000
Total	10,160	2,025,000	[1] 2,200,000

[1] Not including $200,000,000 of business by cooperative selling agencies in 19 livestock terminal markets.

The changes in relative importance of the several geographic divisions are shown by the following percentages:

Geographic division	Number of associations		Estimated number of members	Estimated amount of business	
	1915	1924	1915	1915	1923
	Per cent	*Per cent*	*Per cent*	*Per cent*	*Per cent*
West North Central	47.5	45.1	39.1	45.1	28.9
East North Central	17.9	25.8	16.5	14.2	15.4
Pacific	7.7	6.2	10.1	23.7	18.8
Middle Atlantic	3.9	5.2	9.8	8.8	12.5
West South Central	5.8	4.9	4.7	1.2	4.2
Mountain	4.3	3.8	5.4	3.2	1.9
South Atlantic	6.1	3.6	5.7	1.6	6.6
East South Central	3.9	2.9	5.5	1.1	8.6
New England	2.9	2.5	3.2	1.1	3.1
United States	100.0	100.0	100.0	100.0	100.0

Changes in the number of associations in the various geographic divisions has not been great but the changes in the distribution among the different divisions of the amount of business transacted is marked. The West North Central, Pacific, and Mountain States have lost in relative importance, and the Middle Atlantic, South Central, South Atlantic, and New England States have gained. These changes seem to indicate that cooperative selling and buying, which 10 years ago was largely confined to the North Central and Pacific States, is becoming more generally established in all parts of the United States.

The total figures for number of associations, estimated number of members, and estimated amount of business, broken up according to kind of associations and converted into percentages, point out further tendencies of the agricultural cooperative movement, as will be noted by the following:

Kind of association	Number of associations		Estimated number of members		Estimated amount of business	
	1915	1924	1915	1924	1915	1923
	Per cent	*Per cent*	*Per cent*	*Per cent*	*Per cent*	*Per cent*
Grain	30.2	30.8	25.6	19.8	45.6	27.3
Dairy products	31.5	19.4	21.6	9.9	14.0	18.2
Fruits and vegetables	16.0	12.1	16.9	9.9	31.7	13.6
Livestock	1.8	15.7	2.1	12.3	.9	11.4
Cotton	3.9	1.1	2.8	12.3	.2	4.5
Tobacco	.8	.2	2.7	14.3	1.0	6.8
Merchandise (farmers' stores)	5.1	7.1	9.1	7.4	1.8	2.3
All others	10.7	13.6	19.2	14.1	4.8	15.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

While there has been a marked increase in the total number of associations, the estimated membership, and the estimated amount of business, the gains for some kinds of associations have been much greater than for others, so that the relative importance of the different kinds of associations has changed materially during the 10-year

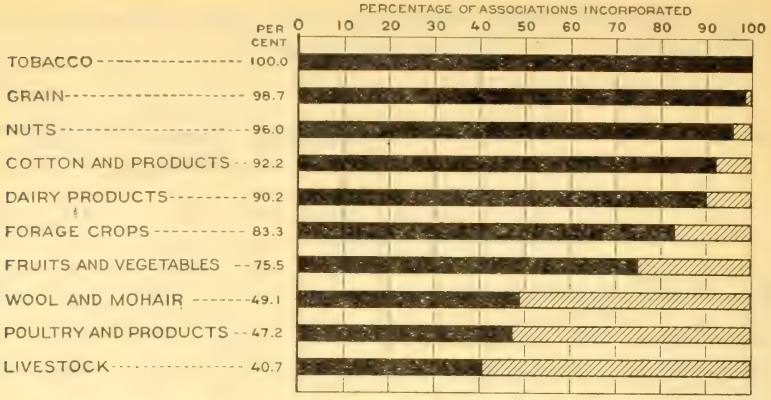

FIG. 9.—The percentage of all associations which are incorporated varies from 40 for those handling livestock to 100 for those handling tobacco. (See Table 20.)

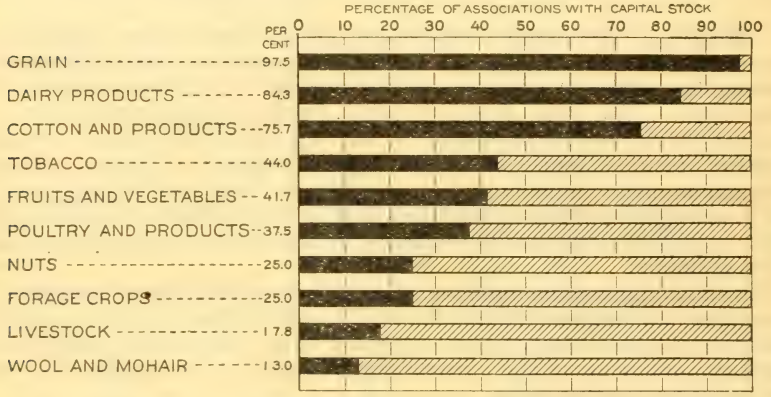

FIG. 10.—The percentage of all associations having capital stock for the various lines of commodities varied from 13 for associations handling wool to 97.5 for those handling grain. (See Table 20.)

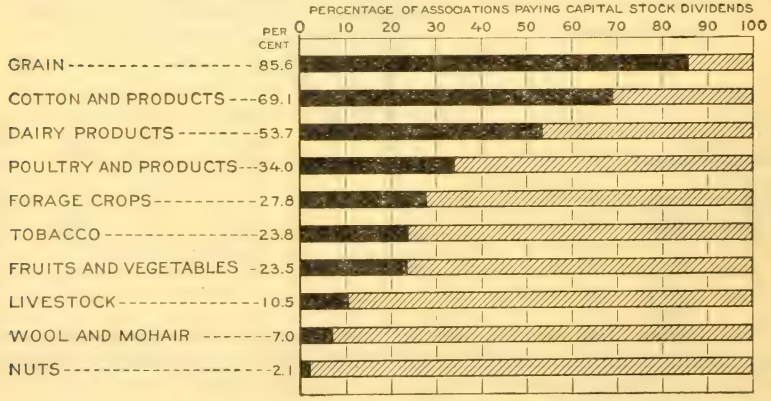

FIG. 11.—Approximately 85 per cent of the associations handling grain pay dividends on capital stock, 69 per cent of those handling cotton or cotton products, and 53 per cent of those marketing dairy products. Only 2 per cent of those handling nuts pay dividends. (See Table 20.)

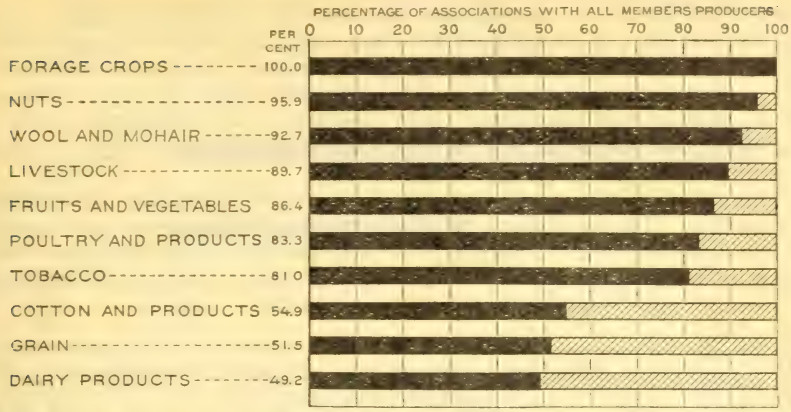

FIG. 12.—Most of the farmers' business organizations are composed only of producers of the product or products handled. (See Table 20.)

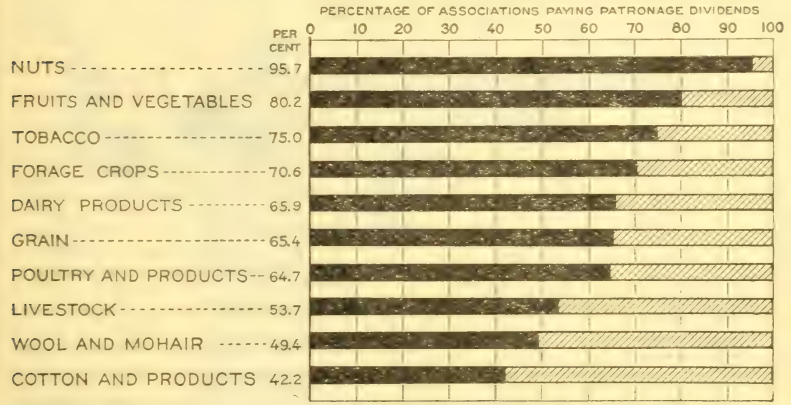

FIG. 13.—Whether patronage dividends are paid by an association depends largely upon the business methods employed. Such dividends are paid from funds accumulated by charging the members more than the cost of the service rendered. If all but actual cost is returned to members in connection with current transactions, no fund is accumulated from which dividends can be paid at the close of the season or year. (See Table 20.)

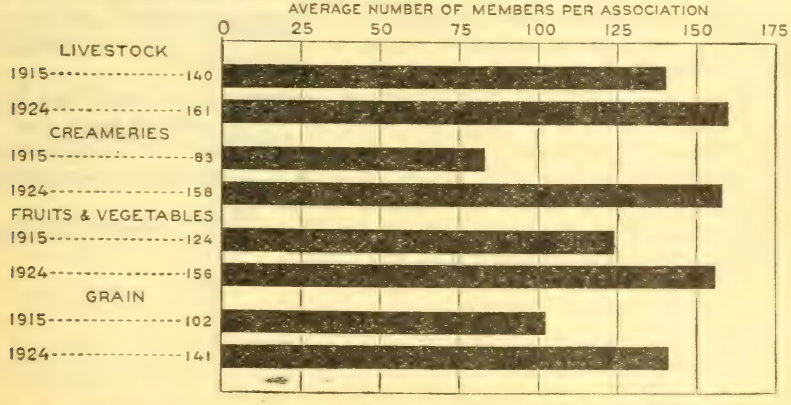

FIG. 14.—During the nine years, 1915–1924, the average number of members of associations handling livestock increased from 140 to 161, the average number for associations operating creameries from 83 to 158, for associations handling fruit and vegetables from 124 to 156, and for associations handling grain from 102 to 141. (See Table 21.)

period, 1915–1924. As regards the number of organizations, livestock shipping associations have increased in relative importance, while associations handling dairy products and fruits and vegetables are a smaller fraction of the total number than formerly. Many small associations marketing dairy products have been absorbed by larger organizations. In this way the marketing of dairy products is rapidly becoming a large-scale activity.

The changes in relative importance as regards number of members is marked. These changes are largely the result of the appearance of the state-wide and regional associations with their large memberships in the tobacco and cotton producing sections and to the increase in number of livestock shipping associations.

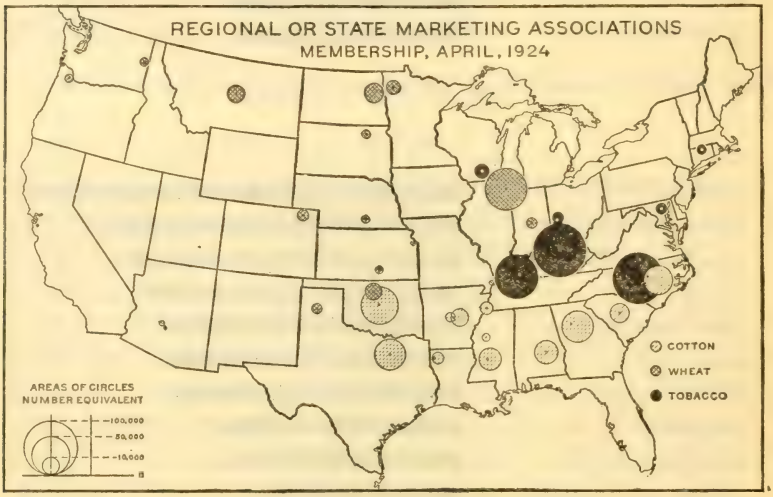

FIG. 15.—Since 1920 nearly 50 associations have been formed which handled but a single commodity and aim to serve an entire producing region or the producers within the boundaries of a State. The most important of the organizations of this new type are the tobacco, cotton, and wheat associations. (See Tables 42, 43, 56, 57, and 58.) The dots in the center of the circles indicate headquarters of associations

The percentages for estimated amount of business show relative losses by the grain associations and those marketing fruits and vegetables, and show relative gains by the organizations handling dairy products, livestock, cotton, and tobacco.

Such data as are available regarding the organizations which have gone out of business during the past 10 years are incorporated in Tables 64 to 70, inclusive. Tables 71 to 95, inclusive, give statistical information for a period of years for about 20 of the larger or best known associations handling various products.

Comments of an interpretative nature have been included in many of the legends beneath the maps and charts.

Average Number of Members for Associations Handling Tobacco, Cotton, and Rice for 1915 and 1924

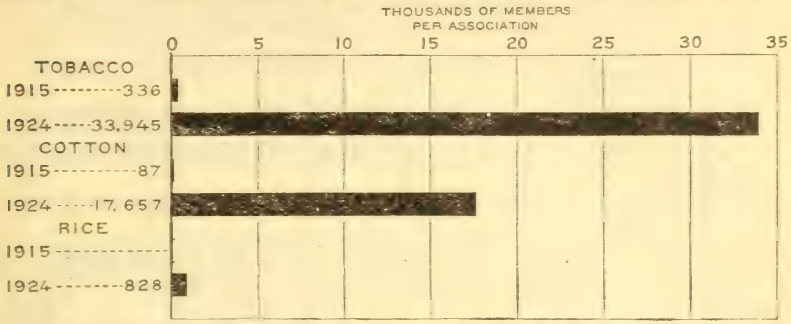

FIG. 16.—About 1920 the State-wide or region-wide marketing organizations appeared. In the tobacco, cotton, and rice producing sections this new type of association has largely replaced the local association which aimed to serve the farmers tributary to a single shipping point. (See Table 21.)

Estimated Business of Associations in Leading States, 1922

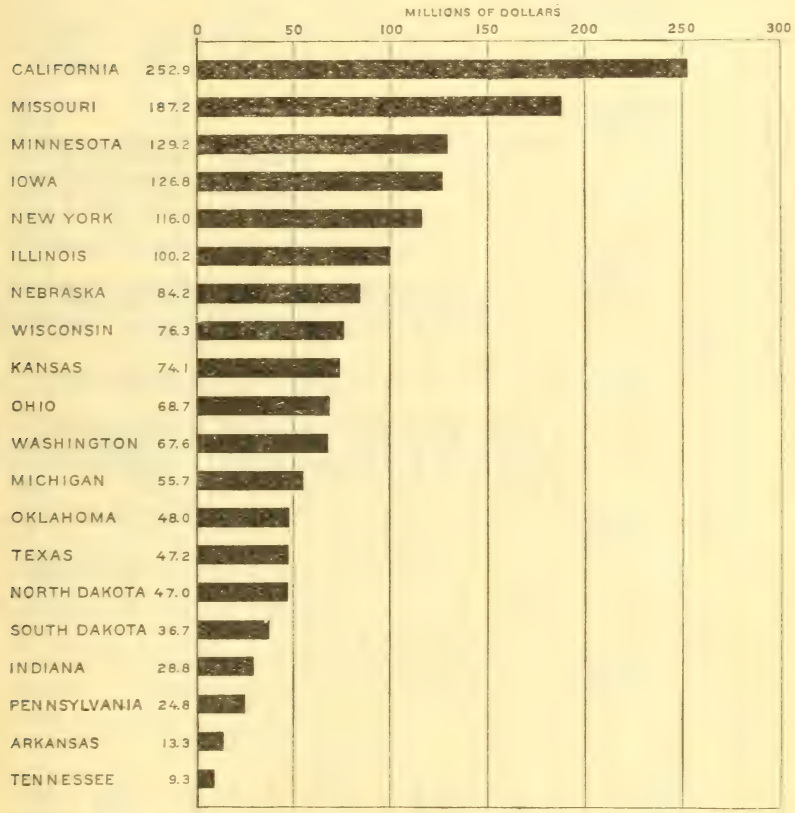

FIG. 17.—The estimated amount of business was determined by multiplying the average amount of business for the associations reporting amount of business by the total number of associations credited to each State

TABLE 1.—*Associations of different kinds reporting amount of business, by States, 1913*

[Source of data, Department Bulletin No. 547]

State and geographic division	Cotton		Dairy products		Fruit and produce		Grain		Livestock		Tobacco		Stores		Miscellaneous		Total	
	Number reporting	Amount	Number reporting	Amount	Number reporting	Amount	Number reporting	Amount	Number reporting	Amount	Number reporting	Amount	Number reporting	Amount	Number reporting	Amount	Number reporting	Amount
Maine			2	$2,059,545	8	$216,800							1	$26,000	15	$816,137	26	$3,118,482
New Hampshire			5	121,158													5	121,158
Vermont			15	688,472													15	688,472
Massachusetts			7	256,202	3	1,210,603							6	404,795	2	50,000	18	1,921,600
Rhode Island													2	101,630			2	101,630
Connecticut			11	560,600	1	5,500									1	47,000	13	613,100
New England			40	3,685,977	12	1,432,903							9	532,425	18	913,137	79	6,564,442
New York			45	2,059,166	18	9,244,842							5	209,489	3	66,500	71	11,579,997
New Jersey			2	585,274	3	1,449,400							2	120,000	1	500	8	2,155,174
Pennsylvania			30	757,212	1	390,500									5	337,200	36	1,484,912
Middle Atlantic			77	3,401,652	22	11,084,742							7	329,489	9	404,200	115	15,220,083
Ohio			23	811,772	9	909,827	16	$1,829,701	1	$3,275	7	$249,931	1	155,000	4	17,000	61	3,976,506
Indiana			21	658,558	10	385,500	16	2,370,044							2	24,000	49	3,438,102
Illinois			23	653,746	4	187,500	139	24,605,105							8	250,000	174	25,696,351
Michigan			55	2,345,155	17	718,604	6	1,002,700	1	77,879			1	672,647	2	260,002	82	5,076,987
Wisconsin			216	10,132,421	17	784,908	14	743,104	3	110,468			17	639,332	8	426,320	275	12,836,553
East North Central			338	14,601,652	57	2,986,339	191	30,550,654	5	191,622	7	249,931	19	1,466,979	24	977,322	641	51,024,499
Minnesota			437	20,393,399	13	453,357	150	16,293,064	12	951,960			14	715,763	22	1,318,352	648	40,125,895
Iowa			161	8,527,224	4	142,542	158	23,650,965	15	2,707,453			7	593,090	26	2,799,534	371	38,420,808
Missouri	1	$65,000	11	498,317	26	1,191,282	4	224,821					2	27,000	1	17,000	45	2,023,420
North Dakota			16	322,027			138	19,616,065					4	112,085	4	71,857	162	20,122,034
South Dakota			18	506,107			80	9,584,116					2	80,998	8	684,615	108	10,855,836
Nebraska			6	550,000	6	33,852	83	11,195,185	9	746,222			1	36,000	17	1,816,410	122	14,377,669
Kansas			4	37,539	7	325,282	82	9,271,785	2	171,282			17	756,580	16	3,331,203	128	13,893,671
West North Central	1	65,000	653	30,834,613	56	2,146,315	695	89,836,001	38	4,576,917			47	2,321,516	94	10,038,971	1,584	139,819,333

Delaware			2	40,075	1	500,000									1	20,000	4	560,075
Maryland			1	5,000	3	1,289,559									3	194,000	7	1,488,559
Virginia			4	105,500	7	5,816,000									4	14,100	15	5,935,600
West Virginia															1	9,000	1	9,000
North Carolina	6	3,727,000	1	23,000	7	109,500					1	725,000	11	263,384	14	147,848	40	4,995,732
South Carolina	6	466,500											1	4,500	6	319,222	13	790,222
Georgia	14	1,952,800			2	11,000									3	64,000	19	2,027,800
Florida					25	1,682,200									4	300,400	29	1,982,600
South Atlantic	26	6,146,300	8	173,575	45	9,408,259					1	725,000	12	267,884	36	1,068,570	128	17,789,588
Kentucky			4	43,200	7	401,700	1	100,000			10	1,580,489	4	76,000	8	293,090	34	2,494,479
Tennessee	2	31,000	1	28,000	10	287,838							1	3,000	2	14,100	16	363,938
Alabama	4	4,802,000			10	861,177											14	5,663,177
Mississippi	7	659,100			13	170,440									2	66,670	22	896,210
East South Central	13	5,492,100	5	71,200	40	1,721,155	1	100,000			10	1,580,489	5	79,000	12	373,860	86	9,417,804
Arkansas	4	536,348			39	1,412,204							1	4,000	2	71,952	46	2,024,504
Louisiana	1	50,000			16	482,683									5	292,000	22	824,683
Oklahoma	8	419,757	3	66,573	2	19,000	8	631,000	1	55,000							22	1,191,330
Texas	25	2,275,839	4	182,004	14	2,582,104	3	470,000									46	5,509,947
West South Central	38	3,281,944	7	248,577	71	4,495,991	11	1,101,000	1	55,000			1	4,000	7	363,952	136	9,550,464
Montana			8	410,736	4	66,900	8	1,485,099					1	26,000	2	236,000	23	2,224,735
Idaho			2	57,000	9	458,000	5	164,807					1	5,000	11	1,433,400	28	2,118,207
Wyoming			1	12,000			2	440,000									3	452,000
Colorado			8	111,701	18	2,042,620									3	191,630	29	2,345,951
New Mexico					2	37,500									4	413,967	6	451,467
Arizona	1	112,500			1	45,000											2	157,500
Utah			5	229,723	8	1,008,439	1	12,000							2	55,000	16	1,305,162
Nevada			1	7,850													1	7,850
Mountain	1	112,500	25	829,010	42	3,658,459	16	2,101,906					2	31,000	22	2,329,997	108	9,062,872
Washington			10	786,291	27	8,056,784	32	5,215,431					6	660,535	3	163,000	78	14,882,041
Oregon			5	754,767	20	4,220,936	14	1,650,229					2	160,289	1	36,000	42	6,822,221
California			19	4,313,791	64	20,709,498							1	75,000	18	5,061,659	102	30,159,948
Pacific			34	5,854,849	111	32,987,218	46	6,865,660					9	895,824	22	5,260,659	222	51,864,210
United States	79	15,097,844	1,187	59,701,105	456	69,921,381	960	130,555,221	44	4,823,539	18	2,555,420	111	5,928,117	244	21,730,668	3,099	310,313,295
Average		191,112		50,296		153,336		135,995		109,626		141,968		53,406		89,060		100,133

TABLE 2.—*Number and per cent of associations, by kinds and geographic divisions, 1915*

[Source of data, Department Bulletin No. 547]

Geographic divisions	Cotton		Dairy products		Fruit and produce		Grain		Livestock		Tobacco		Stores		Miscellaneous		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
New England			61	3.6	27	3.1	1	0.1					19	6.9	49	8.4	157	2.9
Middle Atlantic			125	7.3	45	5.2					2	4.6	15	5.4	23	4.0	210	3.9
East North Central			461	27.0	101	11.6	285	17.4	10	10.4	7	16.3	45	16.4	64	11.0	973	17.9
West North Central	1	0.5	919	53.8	88	10.1	1,217	74.3	80	83.3			108	39.3	164	28.2	2,577	47.5
South Atlantic	70	32.8	17	1.0	102	11.7			2	2.1	11	25.6	25	9.1	102	17.6	329	6.1
East South Central	37	17.4	8	.5	85	9.8	1	.1	1	1.1	23	53.5	20	7.3	40	6.9	215	3.9
West South Central	102	47.9	18	1.0	137	15.7	18	1.1	2	2.1			5	1.8	33	5.7	315	5.8
Mountain	1	.5	43	2.5	70	8.0	51	3.1	1	1.0			7	2.5	59	10.1	232	4.3
Pacific	2	.9	56	3.3	216	24.8	64	3.9					31	11.3	47	8.1	416	7.7
United States	213	100.0	1,708	100.0	871	100.0	1,637	100.0	96	100.0	43	100.0	275	100.0	581	100.0	5,424	100.0

Percentage of Associations Reporting Business of Various Amounts, 1923

FIG. 18.—Reports from 4,321 associations of amount of business transacted annually indicates that a majority of the associations handling fruits, vegetables, and livestock, and operating creameries and cheese factories are in the group credited with less than $100,000 per year. Grain-marketing associations fall largely in two groups; that is, under $100,000 and between $100,000 and $200,000. (See Table 26.)

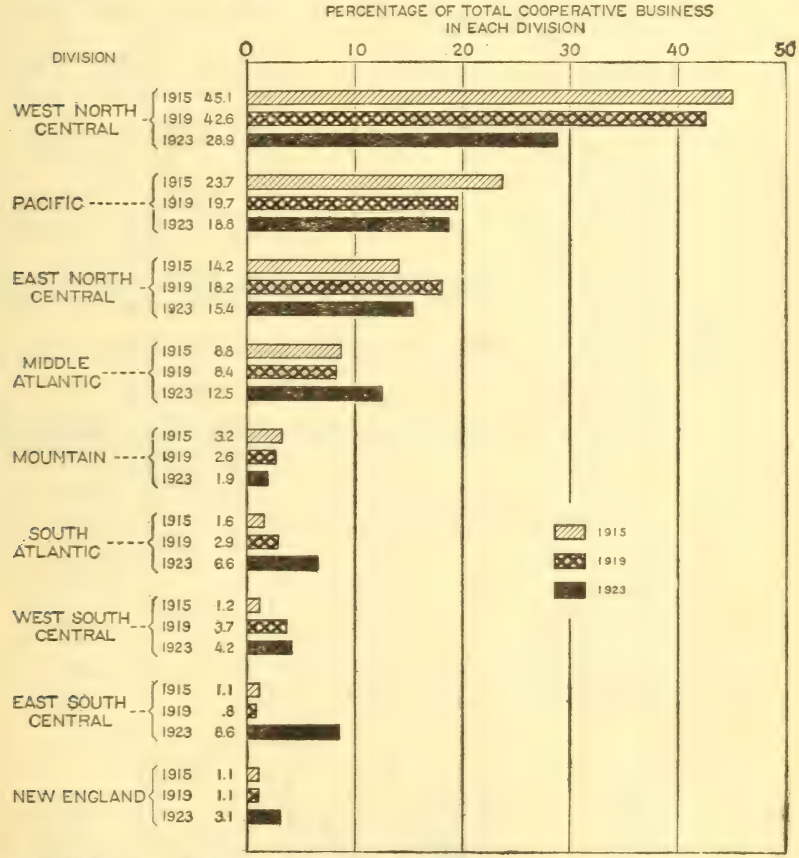

FIG. 19.—During the years from 1915 to 1923 the West North Central, Pacific, and Mountain States lost in relative importance as regards total amount of cooperative business handled. The other groups of States made gains

TABLE 3.—*Number of associations and membership, by kinds and States, 1915*

[Source of data, Department Bulletin No. 547

State and geographic division	Cotton			Dairy products			Fruit and produce			Grain			Livestock			Tobacco			Stores			Miscellaneous			Total	
	Number reporting	Average membership	Estimated membership	Number reporting	Average membership	Estimated membership	Number reporting	Average membership	Estimated membership	Number reporting	Average membership	Estimated membership	Number reporting	Average membership	Estimated membership	Number reporting	Average membership	Estimated membership	Number reporting	Average membership	Estimated membership	Number reporting	Average membership	Estimated membership	Number reporting	Estimated membership
Maine				5	81	567	19	63	1,197	1		102							5	227	1,135	39	130	5,070	71	8,071
New Hampshire				8	239	1,912																			8	1,912
Vermont				22	41	902																1	150	150	23	1,052
Massachusetts				10	82	820	5	139	695										11	452	4,972	5	34	170	31	6,657
Rhode Island																			3	214	642	1	180	180	4	822
Connecticut				14	139	1,946	3	43	129													3	155	465	20	2,540
New England				61		6,147	27		2,021	1		102							19		6,749	49		6,035	157	21,054
New York				75	49	3,675	32	152	4,864										7	151	1,057	10	93	930	124	10,526
New Jersey				2	26	52	9	448	4,032										4	250	1,000	5	451	2,255	20	7,339
Pennsylvania				48	51	2,448	4	77	308							2	315	630	4	106	424	8	5287	42,296	66	46,106
Middle Atlantic				125		6,175	45		9,204							2		630	15		2,481	23		45,481	210	63,971
Ohio				29	228	6,612	16	63	1,008	31	106	3,286	1	90	90	7	79	553	4	253	1,012	9	201	1,809	97	14,370
Indiana				27	45	1,215	19	26	494	27	104	2,808										11	75	825	84	5,342
Illinois				34	100	3,400	11	67	737	192	104	19,968							2	294	588	24	266	6,384	263	31,077
Michigan				70	114	7,980	31	168	5,208	12	176	2,112	2	105	210				7	716	5,012	5	128	640	127	21,162
Wisconsin				301	74	22,274	24	82	1,968	23	122	2,806	7	156	1,092				32	140	4,480	15	184	2,760	402	35,380
East North Central				461		41,481	101		9,415	285		30,980	10		1,392	7		553	45		11,092	64		12,418	973	107,331
Minnesota				624	77	48,048	28	75	2,100	241	125	30,125	30	147	4,410				30	103	3,090	27	97	2,619	980	90,392
Iowa				204	108	22,032	8	79	632	228	119	27,132	20	129	2,580				14	154	2,156	31	149	4,619	505	59,151
Missouri	1	14	14	15	43	645	34	102	3,468	13	115	1,495	1	1140	140				6	68	408	3	189	567	73	6,737
North Dakota				29	47	1,363				264	74	19,536	2	93	186				12	74	888	6	80	480	313	22,453
South Dakota				26	89	2,314	1	7	7	135	98	13,230							4	61	244	12	138	1,656	178	17,451
Nebraska				15	111	1,665	7	117	819	183	99	18,117	25	159	3,975				6	116	696	46	89	4,094	282	29,366
Kansas				6	50	300	10	137	1,370	153	93	14,229	2	185	370				36	205	7,380	39	134	5,226	246	28,875
West North Central	1		14	919		76,367	88		8,396	1,217		123,864	80		11,661				108		14,862	164		19,261	2,577	254,425

Delaware				3	[1] 83	249	1	[1] 1,200	1,200														1	3	3	5	1,452
Maryland				1	54	54	8	127	1,016														40	69	690	19	1,760
Virginia				8	51	408	13	404	5,252				1	45	45	5	80	400	3	53	159	28	213	5,964	58	12,228
West Virginia							4	93	372										1	150	150	7	170	1,190	12	1,712
North Carolina	10	135	1,350	4	161	644	9	240	2,160				1	50	50	5	424	2,120	17	103	1,751	28	68	1,904	74	9,979
South Carolina	44	61	854	1	56	56	7	51	357							1	18	18	2	4	8	12	113	1,356	37	2,649
Georgia	44	75	3,300				5	104	520										2	50	100	4	77	308	55	4,228
Florida	2	15	30				55	41	2,255													12	67	804	69	3,089
South Atlantic	70		5,534	17		1,411	102		13,132				2		95	11		2,538	25		2,168	102		12,219	329	37,097
Kentucky				6	63	378	15	79	1,185	1	85	85				21	668	14,028	6	183	1,098	17	158	2,686	66	19,460
Tennessee	7	59	413	2	68	136	18	146	2,628							1	20	20	13	166	2,158	15	107	1,605	56	6,960
Alabama	10	131	2,489				26	151	3,926				1	[1] 140	140				1	15	15	4	122	488	51	7,058
Mississippi	11	26	286				26	65	1,690							1	80	80				4	75	300	42	2,356
East South Central	37		3,188	8		514	85		9,429	1		85	1		140	23		14,128	20		3,271	40		5,079	215	35,834
Arkansas	15	49	735	1	[1] 83	83	63	66	4,158										3	141	423	7	45	315	89	5,714
Louisiana	3	5	15				34	100	3,400													7	107	749	44	4,164
Oklahoma	13	63	819	8	81	648	9	45	405	11	88	968	2	69	138				2	301	602	3	31	93	48	3,673
Texas	71	112	7,952	9	43	387	31	200	6,200	7	105	735										16	123	1,968	134	17,242
West South Central	102		9,521	18		1,118	137		14,163	18		1,703	2		138				5		1,025	33		3,125	315	30,793
Montana				12	95	1,140	7	82	574	27	105	2,835							2	62	124	3	37	111	51	4,784
Idaho				6	150	900	17	79	1,343	9	56	504							1	27	27	26	502	13,052	59	15,826
Wyoming				2	35	70				8	70	560	1	12	12				2	58	116	3	171	513	16	1,271
Colorado				13	27	351	28	163	4,564	3	225	675							1	80	80	8	102	816	53	6,486
New Mexico							3	40	120													10	76	760	13	880
Arizona	1	[1] 87	87				3	73	219													3	178	534	7	840
Utah				9	78	702	12	172	2,064	4	48	192							1	457	457	5	185	915	31	4,330
Nevada				1	[1] 83	83																1	[1] 231	231	2	314
Mountain	1		87	43		3,246	70		8,884	51		4,766	1		12				7		801	59		16,932	232	34,731
Washington				14	95	1,330	52	287	14,924	48	90	4,320							12	958	11,496	8	83	664	134	32,734
Oregon				16	55	880	40	115	4,600	16	63	1,008							8	506	4,048	5	61	305	85	10,844
California	2	30	60	26	73	1,898	124	127	15,748										11	137	1,507	34	93	3,162	197	22,375
Pacific	2		60	56		4,108	216		35,272	64		5,328							31		17,051	47		4,131	416	65,950
United States	213		18,404	1,708		140,567	871		103,916	1,637		166,828	96		13,438	43		17,849	275		59,503	581		124,681	5,424	651,186

[1] Average number of members per association for the United States for the kind of commodities handled.

TABLE 4.—*Number of associations and estimated business, by kinds and States, 1915*

[Source of data, Department Bulletin No. 547]

State and geographic division	Cotton		Dairy products		Fruit and produce		Grain		Livestock		Tobacco		Stores		Miscellaneous		Total	
	Number reporting	Estimated business	Number reporting	Estimated business	Number reporting	Estimated business	Number reporting	Estimated business	Number reporting	Estimated business	Number reporting	Estimated business	Number reporting	Estimated business	Number reporting	Estimated business	Number reporting	Estimated business
Maine			7	$490,000	19	$47,500	1	$145,460					5	$195,000	39	$1,812,876	71	$2,690,836
New Hampshire			8	140,000													8	140,000
Vermont			22	1,221,000											1	46,484	23	1,267,484
Massachusetts			10	469,140	5	556,410							11	633,776	5	232,420	31	1,891,746
Rhode Island													3	122,565	1	46,489	4	169,054
Connecticut			14	341,712	3	333,846									3	139,452	20	815,010
New England			61	2,661,852	27	937,756	1	145,460					19	951,341	49	2,277,721	157	6,974,130
New York			75	1,959,075	32	48,000,000							7	285,985	10	1,500,000	124	51,745,060
New Jersey			2	93,828	9	22,500							4	44,616	5	232,420	20	393,364
Pennsylvania			48	2,468,304	4	300,000					2	$300,000	4	89,332	8	800,000	66	3,957,636
Middle Atlantic			125	4,521,207	45	48,322,500					2	300,000	15	419,933	23	2,532,420	210	56,096,060
Ohio			29	725,000	16	1,280,060	31	2,325,000	1	$58,400	7	1,050,000	4	163,420	9	119,187	97	5,721,007
Indiana			27	1,485,000	19	47,500	27	1,215,000							11	594,000	84	3,341,500
Illinois			34	134,300	11	27,500	192	31,320,000					2	81,710	24	1,115,616	263	32,679,126
Michigan			70	3,688,160	31	4,650,000	12	1,800,000	2	116,800			7	285,985	5	625	127	10,541,570
Wisconsin			301	30,965,375	24	2,670,768	23	2,506,080	7	140,000			32	1,173,344	15	375,000	402	37,830,567
East North Central			461	36,997,835	101	8,675,768	285	39,166,080	10	315,200	7	1,050,000	45	1,704,459	64	2,204,428	973	90,113,770
Minnesota			624	26,060,736	28	1,120,000	241	28,042,037	30	1,290,000			30	1,200,000	27	1,255,068	980	58,967,841
Iowa			204	10,361,772	8	32,000	228	93,183,600	20	1,168,000			14	571,970	31	1,441,004	505	106,758,346
Missouri	1	$7,975	15	105,000	34	345,100	13	520,000	1	58,400			6	67,500	3	139,452	73	1,243,427
North Dakota			29	357,657			264	45,672,792	2	75,000			12	480,000	6	675,000	313	47,260,449
South Dakota			26	407,654	1	70,000	135	22,779,495					4	163,420	12	396,000	178	23,816,569
Nebraska			15	703,710	7	778,974	183	4,093,344	25	2,250,000			6	180,000	46	7,532,500	282	15,538,528
Kansas			6	63,198	10	2,000,000	153	27,645,111	2	116,800			36	1,182,852	39	1,941,654	246	32,949,615
West North Central	1	7,975	919	38,059,727	88	4,346,074	1,217	221,936,379	80	4,958,200			108	3,845,742	164	13,380,678	2,577	286,534,775

Delaware			3	140,742	1	111,282									1	46,484	5	298,508
Maryland			1	4,,,,914	8	40,000									10	300,000	19	386,914
Virginia			8	375,312	13	338,000			1	58,400	5	750,000	3	15,000	28	138,124	58	1,674,836
West Virginia					4	445,128							1	30,000	7	63,000	12	538,128
North Carolina	10	79,750	4	960,000	9	1,001,538			1	58,400	5	750,000	17	694,535	28	33,600	74	3,577,823
South Carolina	14	111,650	1	5,500	7	1,229,515					1	150,000	2	81,710	12	294,324	37	1,872,699
Georgia	44	132,000			5	25,000							2	96,000	4	185,936	55	438,936
Florida	2	15,950			55	907,500									12	557,808	69	1,481,258
South Atlantic	70	339,350	17	1,528,468	102	4,097,963			2	116,800	11	1,650,000	25	917,245	102	1,619,276	329	10,269,102
Kentucky			6	281,484	15	19,125	1	145,460			21	3,150,000	6	245,130	17	68,000	66	3,909,199
Tennessee	7	24,500	2	93,828	18	426,600					1	150,000	13	377,000	15	574,995	56	1,646,923
Alabama	19	28,500			26	827,658			1	58,400			1	120,000	4	80,000	51	1,114,558
Mississippi	11	124,707			26	39,000					1	150,000			4	185,936	42	493,643
East South Central	37	177,707	8	375,312	85	1,312,383	1	145,460	1	58,400	23	3,450,000	20	742,130	40	908,931	215	7,170,323
Arkansas	15	13,875	1	1,800	63	442,764							3	122,565	7	325,388	89	906,392
Louisiana	3	23,925			34	1,627,172									7	325,388	44	1,976,485
Oklahoma	13	276,250	8	163,032	9	20,250	11	1,796,663	2	116,800			2	81,710	3	42	48	2,454,747
Texas	71	639,000	9	137,250	31	328,600	7	1,018,220							16	223,040	134	2,346,110
West South Central	102	953,050	18	302,082	137	2,418,786	18	2,814,883	2	116,800			5	204,275	33	873,858	315	7,683,734
Montana			12	562,968	7	70,000	27	3,969,000					2	81,710	3	139,452	51	4,823,130
Idaho			6	900,000	17	1,891,794	9	1,309,140					1	40,855	26	1,208,584	59	5,350,373
Wyoming			2	320,000			8	1,163,680	1	58,400			2	81,710	3	139,452	16	1,763,242
Colorado			13	158,041	28	3,500,000	3	750,000					1	40,855	8	371,872	53	4,820,768
New Mexico					3	300,000									10	464,840	13	764,840
Arizona	1	7,975			3	333,846									3	180,000	7	521,821
Utah			9	162,000	12	1,335,384	4	360,000					1	40,855	5	450,000	31	2,348,239
Nevada			1	46,914											1	46,484	2	93,398
Mountain	1	7,975	43	2,149,923	70	7,431,024	51	7,551,820	1	58,400			7	285,985	59	3,000,684	232	20,485,811
Washington			14	1,050,000	52	5,786,664	48	9,929,136					12	1,830,000	8	371,872	134	18,967,672
Oregon			16	195,200	40	1,000,000	16	8,000,000					8	326,840	5	232,420	85	9,754,460
California	2	15,950	26	1,219,764	124	117,213,728							11	449,405	34	2,890,000	197	121,788,847
Pacific	2	15,950	56	2,464,964	216	124,000,392	64	17,929,136					31	2,606,245	47	3,494,292	416	150,510,979
United States	213	1,502,007	1,708	89,061,370	871	201,542,646	1,637	289,689,218	96	5,623,800	43	6,450,000	275	11,677,355	581	30,292,288	5,424	635,838,684

TABLE 5.—*Cooperative marketing and purchasing through farmers' organizations, 1919*

[Bureau of the Census]

Division and State	Farms reporting sales or purchases		Sales through farmers' marketing organizations				Purchases through farmers' marketing organizations			
	Number	Per cent of all farms	Farms reporting		Amount		Farms reporting		Amount	
			Number	Per cent of all farms	Total	Average per farm	Number	Per cent of all farms	Total	Average per farm
Geographic divisions:										
New England	10,229	6.5	4,060	2.6	$5,916,681	$1,457	7,579	4.8	$3,035,806	$401
Middle Atlantic	45,079	10.6	33,854	8.0	61,224,128	1,808	17,884	4.2	6,193,647	346
East North Central	173,672	16.0	144,339	13.3	132,639,450	919	83,518	7.7	14,305,931	171
West North Central	284,123	25.9	243,288	22.2	300,820,976	1,236	166,084	15.1	43,115,568	260
South Atlantic	18,770	1.6	9,517	.8	20,639,686	2,169	12,230	1.1	2,607,639	213
East South Central	15,488	1.5	12,705	1.2	5,271,001	415	5,285	.5	763,054	144
West South Central	18,755	1.9	15,635	1.6	26,934,455	1,723	9,332	.9	2,803,314	300
Mountain	19,697	8.1	12,785	5.2	17,443,431	1,364	13,875	5.7	3,769,213	272
Pacific	38,714	16.5	35,200	15.0	151,093,831	4,292	13,662	5.8	8,021,497	587
United States	624,527	9.7	511,383	7.9	721,983,639	1,412	329,449	5.1	84,615,669	257
New England:										
Maine	4,062	8.4	1,264	2.6	1,421,022	1,124	3,407	7.1	1,498,395	440
New Hampshire	1,027	5.0	122	.6	120,427	987	946	4.6	246,059	260
Vermont	2,513	8.6	1,239	4.3	1,449,389	1,170	1,672	5.8	510,305	305
Massachusetts	1,547	4.8	747	2.3	1,671,099	2,237	1,009	3.2	521,547	517
Rhode Island	145	3.6	95	2.3	222,078	2,338	86	2.1	30,534	355
Connecticut	935	4.1	593	2.6	1,032,666	1,741	459	2.0	228,966	499
Middle Atlantic:										
New York	27,283	14.1	23,494	12.2	44,906,247	1,911	7,106	3.7	2,270,976	320
New Jersey	4,282	14.4	2,758	9.3	6,603,253	2,394	2,798	9.4	2,093,705	748
Pennsylvania	13,514	6.7	7,602	3.8	9,714,628	1,278	7,980	3.9	1,828,966	229
East North Central:										
Ohio	30,621	11.9	19,952	7.8	18,762,020	940	21,250	8.3	3,197,047	150
Indiana	19,212	9.4	14,638	7.1	12,778,040	873	10,019	4.9	1,766,268	176
Illinois	28,628	12.1	24,797	10.5	47,920,487	1,933	12,303	5.2	3,333,667	271
Michigan	47,021	23.9	42,104	21.4	24,294,688	577	18,154	9.2	2,445,953	135
Wisconsin	48,190	25.5	42,848	22.6	28,884,215	674	21,792	11.5	3,562,996	164
West North Central:										
Minnesota	81,145	45.5	78,314	43.9	82,760,459	1,057	29,611	16.6	6,642,162	224
Iowa	51,630	24.2	43,350	20.3	59,403,626	1,370	32,530	15.2	6,760,952	208
Missouri	25,496	9.7	17,748	6.7	13,474,992	759	17,954	6.8	2,964,714	165
North Dakota	19,814	25.5	17,438	22.4	24,484,558	1,404	12,579	16.2	3,840,811	305

South Dakota	22,517	30.2	20,241	27.1	31,651,241	1,564	13,754	18.4	3,583,771	261
Nebraska	40,333	32.4	32,543	26.2	44,755,149	1,375	27,335	22.0	9,660,107	353
Kansas	43,188	26.1	33,654	20.4	44,290,957	1,316	32,321	19.6	9,663,051	299
South Atlantic:										
Delaware	610	6.0	548	5.4	218,634	398	275	2.7	29,554	107
Maryland	2,177	4.5	1,865	3.9	3,089,200	1,656	637	1.3	272,420	428
Virginia	7,537	4.0	3,849	2.1	10,186,092	2,646	5,161	2.8	1,205,659	234
West Virginia	2,565	2.9	625	.7	284,150	455	2,263	2.5	218,239	99
North Carolina	3,524	1.3	850	.3	663,227	780	2,976	1.1	421,142	142
South Carolina	338	.2	203	.1	961,929	4,739	186	.1	126,190	678
Georgia	586	.2	210	.1	890,605	4,241	411	.1	65,446	159
Florida	1,433	2.7	1,367	2.5	4,346,379	3,180	381	.7	269,009	706
East South Central:										
Kentucky	4,543	1.7	3,498	1.3	2,430,792	695	2,344	.9	381,406	163
Tennessee	2,121	.8	1,255	.5	607,671	484	1,174	.5	133,270	114
Alabama	2,825	1.1	2,678	1.0	837,498	313	422	.2	72,287	171
Mississippi	5,909	2.2	5,274	1.9	1,395,015	265	1,345	.5	176,091	131
West South Central:										
Arkansas	3,144	1.4	2,885	1.2	4,726,491	1,638	1,072	.5	173,722	162
Louisiana	4,229	3.2	4,284	3.2	9,715,844	2,268	1,591	1.2	869,389	546
Oklahoma	7,718	4.0	5,980	3.1	8,055,084	1,347	4,900	2.6	1,106,270	226
Texas	3,561	.8	2,486	.6	4,437,036	1,785	1,769	.4	653,933	370
Mountain:										
Montana	3,804	6.6	1,948	3.4	1,538,303	790	2,926	5.1	871,192	298
Idaho	3,749	8.9	2,336	5.5	3,599,598	1,455	2,653	6.3	657,952	248
Wyoming	737	4.7	370	2.3	646,748	1,748	611	3.9	137,403	225
Colorado	7,789	13.0	5,847	9.8	9,303,346	1,591	5,613	9.4	1,658,358	295
New Mexico	1,247	4.2	975	3.3	1,047,105	1,074	571	1.9	220,026	383
Arizona	224	2.2	180	1.8	394,508	2,192	121	1.2	41,170	340
Utah	2,145	8.4	1,127	4.4	1,105,523	981	1,377	5.4	183,112	133
Nevada	2	.1	2	.1	8,300	4,150				
Pacific:										
Washington	7,457	11.2	5,583	8.4	15,356,226	2,751	5,355	8.1	2,710,202	506
Oregon	4,842	9.6	3,845	7.7	7,746,624	2,015	2,515	5.0	990,166	394
California	26,415	22.4	25,772	21.9	127,990,981	4,966	5,792	4.9	4,321,129	746

TABLE 6.—*Farms reporting sales and purchases through cooperative associations, by States, 1919*

[Data from Agricultural Census, 1919]

Farms reporting sales and purchases				Amount of sales and purchases				Average amount per farm	
State and rank	Number of farms	Per cent	Cumulative per cent	State and rank	Amount	Per cent	Cumulative per cent	State and rank	Amount
1. Minnesota	81,145	12.99	12.99	1. California	$132,312,110	16.40	16.40	1. California	$5,009
2. Iowa	51,630	8.27	21.26	2. Minnesota	89,402,621	11.08	27.48	2. Nevada	4,150
3. Wisconsin	48,190	7.72	28.98	3. Iowa	66,164,578	8.20	35.68	3. Florida	3,221
4. Michigan	47,021	7.53	36.51	4. Nebraska	54,415,247	6.75	42.43	4. South Carolina	3,219
5. Kansas	43,188	6.92	43.43	5. Kansas	53,954,008	6.69	49.12	5. Louisiana	2,445
6. Nebraska	40,333	6.46	49.89	6. Illinois	51,254,154	6.35	55.47	6. Washington	2,423
7. Ohio	30,621	4.90	54.79	7. New York	47,177,223	5.85	61.32	7. New Jersey	2,031
8. Illinois	28,628	4.58	59.37	8. South Dakota	35,235,015	4.37	65.69	8. Arizona	1,945
9. New York	27,283	4.37	63.74	9. Wisconsin	32,447,211	4.02	69.71	9. Oregon	1,804
10. California	26,415	4.23	67.97	10. North Dakota	28,325,369	3.51	73.22	10. Illinois	1,790
11. Missouri	25,496	4.08	72.05	11. Michigan	26,740,641	3.32	76.54	11. Rhode Island	1,742
12. South Dakota	22,517	3.61	75.66	12. Ohio	21,959,067	2.72	79.26	12. New York	1,729
13. North Dakota	19,814	3.17	78.83	13. Washington	18,066,428	2.24	81.50	13. Georgia	1,631
14. Indiana	19,212	3.08	81.91	14. Missouri	16,439,706	2.04	83.54	14. South Dakota	1,565
15. Pennsylvania	13,514	2.16	84.07	15. Indiana	14,544,308	1.80	85.34	15. Arkansas	1,559
16. Colorado	7,789	1.25	85.32	16. Pennsylvania	11,543,594	1.43	86.77	16. Maryland	1,544
17. Oklahoma	7,718	1.24	86.56	17. Virginia	11,391,751	1.41	88.18	17. Virginia	1,511
18. Virginia	7,537	1.21	87.77	18. Colorado	10,961,704	1.36	89.54	18. North Dakota	1,430
19. Washington	7,457	1.19	88.96	19. Louisiana	10,585,233	1.31	90.85	19. Texas	1,428
20. Mississippi	5,999	.96	89.92	20. Oklahoma	9,161,354	1.14	91.99	20. Massachusetts	1,417
21. Oregon	4,842	.78	90.70	21. Oregon	8,736,790	1.08	93.07	21. Colorado	1,407
22. Kentucky	4,543	.73	91.43	22. New Jersey	8,696,958	1.08	94.15	22. Connecticut	1,349
23. Louisiana	4,329	.69	92.12	23. Texas	5,090,969	.63	94.78	23. Nebraska	1,349
24. New Jersey	4,282	.69	92.81	24. Arkansas	4,900,213	.61	95.39	24. Iowa	1,282
25. Maine	4,062	.65	93.46	25. Florida	4,615,388	.57	95.96	25. Kansas	1,249
26. Montana	3,804	.61	94.07	26. Idaho	4,057,550	.50	96.46	26. Oklahoma	1,187
27. Idaho	3,749	.60	94.67	27. Maryland	3,361,620	.42	96.88	27. Minnesota	1,102
28. Texas	3,564	.57	95.24	28. Maine	2,919,417	.36	97.24	28. Idaho	1,082
29. North Carolina	3,524	.56	95.80	29. Kentucky	2,812,198	.35	97.59	29. Wyoming	1,064
30. Arkansas	3,144	.50	96.30	30. Montana	2,409,495	.30	97.89	30. New Mexico	1,016
31. Alabama	2,825	.45	96.75	31. Massachusetts	2,192,646	.27	98.16	31. Pennsylvania	854
32. West Virginia	2,565	.41	97.16	32. Vermont	1,959,694	.24	98.40	32. Vermont	780
33. Vermont	2,513	.40	97.56	33. Mississippi	1,571,131	.20	98.60	33. Indiana	757
34. Maryland	2,177	.35	97.91	34. Utah	1,288,635	.16	98.76	34. Maine	719
35. Utah	2,145	.34	98.25	35. New Mexico	1,267,131	.16	98.92	35. Ohio	717
36. Tennessee	2,121	.34	98.59	36. Connecticut	1,261,632	.16	99.08	36. Wisconsin	673
37. Massachusetts	1,547	.25	98.84	37. South Carolina	1,088,189	.14	99.22	37. Missouri	645
38. Florida	1,433	.23	99.07	38. North Carolina	1,084,369	.14	99.36	38. Montana	633
39. New Mexico	1,247	.20	99.27	39. Georgia	956,051	.12	99.48	39. Kentucky	619

40. New Hampshire	1,027	.16	99.43	40. Alabama	909,785	.11	99.59	40. Utah	601
41. Connecticut	935	.15	99.58	41. Wyoming	784,151	.10	99.69	41. Michigan	569
42. Wyoming	737	.12	99.70	42. Tennessee	740,941	.09	99.78	42. Delaware	406
43. Delaware	610	.10	99.80	43. West Virginia	502,369	.06	99.84	43. New Hampshire	357
44. Georgia	586	.09	99.89	44. Arizona	435,678	.05	99.89	44. Tennessee	349
45. South Carolina	338	.05	99.94	45. New Hampshire	366,486	.05	99.94	45. Alabama	322
46. Arizona	224	.04	99.98	46. Rhode Island	252,612	.03	99.97	46. North Carolina	308
47. Rhode Island	145	.02	100.00	47. Delaware	247,588	.03	100.00	47. Mississippi	262
48. Nevada	2	[1].00	100.00	48. Nevada	8,300	[1].00	100.00	48. West Virginia	196
United States	624,527	100.00		United States	806,599,308	100.00		

[1] Less than .01 per cent.

TABLE 7.—*Number and per cent of associations, by kinds and geographic divisions, March, 1924*

Geographic division	Cotton		Dairy products		Forage crops		Fruits and vegetables		Grain		Livestock		Nuts		Poultry		Tobacco		Wool		Miscellaneous selling		Merchandise (farmers' stores)		Miscellaneous buying		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
New England			80	4.1			42	3.4	3	.1	2	.1			1	1.8	4	16.0	4	3.5	30	4.2	24	3.4	66	15.4	256	2.5
Middle Atlantic			137	7.0	2	10.0	109	8.9	7	.2	4	.2			3	5.4	6	24.0	37	32.2	57	8.0	18	2.5	151	35.1	531	5.2
East North Central			710	36.1			119	9.7	852	27.2	549	34.4			5	8.9	6	24.0	14	12.2	182	25.7	109	15.2	74	17.2	2,620	25.8
West North Central	3	2.8	852	43.3	1	5.0	153	12.4	1,953	62.3	953	59.6			7	12.5			23	20.0	185	26.1	404	56.3	45	10.5	4,579	45.1
South Atlantic	24	22.4	23	1.2	2	10.0	134	10.9	5	.2	17	1.1	5	9.8	3	5.4	4	16.0	12	10.4	52	7.3	31	4.3	51	11.9	363	3.6
East South Central	18	16.8	31	1.6	2	10.0	89	7.2	1	(1)	33	2.1	2	3.9	10	17.9	4	16.0	8	7.0	73	10.3	14	2.0	13	3.0	298	2.9
West South Central	60	56.1	10	.5	2	10.0	180	14.6	113	3.6	7	.4	3	5.9	10	17.8	1	4.0	3	2.6	55	7.8	38	5.3	10	2.3	492	4.9
Mountain	2	1.9	34	1.7	4	20.0	84	6.8	135	4.3	27	1.7			6	10.7			9	7.8	47	6.6	29	4.0	10	2.3	387	3.8
Pacific			89	4.5	7	35.0	322	26.1	65	2.1	6	.4	41	80.4	11	19.6			5	4.3	28	4.0	50	7.0	10	2.3	634	6.2
United States	107	100.0	1,966	100.0	20	100.0	1,232	100.0	3,134	100.0	1,598	100.0	51	100.0	56	100.0	25	100.0	115	100.0	709	100.0	717	100.0	430	100.0	10,160	100.0

[1] Less than one-tenth of 1 per cent.

TABLE 8.—*Farmers' business organizations, by kinds and States, March, 1924*

State and geographic division	Cotton and cotton products	Dairy products	Forage crops	Fruits and vegetables	Grain	Live-stock	Nuts	Poultry and poultry products	Tobacco	Wool	Miscellaneous selling	Merchandise (farmers' stores)	Miscellaneous buying	Total, reporting
Maine		8		32	1					2	12	21	8	84
New Hampshire		4			1					1	2	2	6	16
Vermont		42		1		1					11		5	60
Massachusetts		16		7	1					2	1	4		16	47
Rhode Island		2										1	1	3	7
Connecticut		8		2		1		1		2				28	42
New England		80		42	3	2		1	4	4	30	24	66	256
New York		78	2	89	3	2		2	1	31	20	8	41	277
New Jersey				7							3	2	10	22
Pennsylvania		59		13	4	2		1	5	6	34	8	100	232
Middle Atlantic		137	2	109	7	4		3	6	37	57	18	151	531
Ohio		41		16	196	74			3	7	16	11	16	380
Indiana		23		8	126	95		1		6	11	12	19	301
Illinois		19		17	397	154		2		1	20	22	8	640
Michigan		89		55	83	82		1			77	15	18	420
Wisconsin		538		23	50	144		1	3		58	49	13	879
East North Central		710		119	852	549		5	6	14	182	109	74	2,620
Minnesota		548		78	268	300		3		12	26	86	9	1,330
Iowa		228		5	345	334		2		6	17	84	18	1,039
Missouri	3	13	1	29	153	107		1		1	125	35	7	475
North Dakota		17		24	326	64				1	4	22	1	459
South Dakota		28		10	215	93				1	3	23	3	376
Nebraska		12		4	337	30		1			4	86	3	477
Kansas		6		3	309	25				2	6	68	4	423
West North Central	3	852	1	153	1,953	953		7		23	185	404	45	4,579
Delaware		1		2							3		5	11
Maryland		2		4	2				1		2	1	5	17
District of Columbia		1												1
Virginia		11	1	10	1	14	1	1		2	11	17	22	91
West Virginia				7		1		1		10	5		7	31
North Carolina	6	6		12	2				2		9	8	8	53
South Carolina	4		1	9							1		1	16

Georgia	14	1		8		1	4		1		17	3	2	51
Florida		1		82		1		1			4	2	1	92
South Atlantic	24	23	2	134	5	17	5	3	4	12	52	31	51	363
Kentucky		6		6		10		5	2	3	8	11	7	58
Tennessee	3	18	1	42	1	13	1	2	2	5	23	3	1	115
Alabama	12	4	1	25		10	1	1			16		5	75
Mississippi	3	3		16				2			26			50
East South Central	18	31	2	89	1	53	2	10	4	8	73	14	13	298
Arkansas	8			90	2	1		2		1	7	11	3	125
Louisiana	1	1		24	5				1		5	1	1	39
Oklahoma	8	2		12	89	2	1				12	16	2	144
Texas	43	7	2	54	17	4	2	8		2	31	10	4	184
West South Central	60	10	2	180	113	7	3	10	1	3	55	38	10	492
Montana		5		6	60	13				2	7	10	3	106
Idaho		9	1	20	13					1	9	6	2	61
Wyoming		1		3	8					1	3	2	1	19
Colorado		8		38	42	10				3	7	6		114
New Mexico		1	2	2	7					1	5			18
Arizona	2	1	1	5	1	1		1			8	1	2	23
Utah		9		10	3	1		5		1	7	4	2	42
Nevada					1	2					1			4
Mountain	2	34	4	84	135	27		6		9	47	29	10	387
Washington		24		50	42			2		1	7	39	4	169
Oregon		42	1	26	9	2	1	1		2	9	4	2	99
California		23	6	246	14	4	40	8		2	12	7	4	366
Pacific		89	7	322	65	6	41	11		5	28	50	10	634
United States	107	1,966	20	1,232	3,134	1,598	51	56	25	115	709	717	430	10,160

TABLE 9.—*Associations in leading States, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Minnesota	1,330	13.1	13.1	13. Indiana	301	3.0	74.5
2. Iowa	1,039	10.2	23.3	14. New York	277	2.7	77.2
3. Wisconsin	879	8.7	32.0	15. Pennsylvania	232	2.3	79.5
4. Illinois	640	6.3	38.3	16. Texas	184	1.8	81.3
5. Nebraska	477	4.7	43.0	17. Washington	169	1.7	83.0
6. Missouri	475	4.7	47.7	18. Oklahoma	144	1.4	84.4
7. North Dakota	459	4.5	52.2	19. Arkansas	125	1.2	85.6
8. Kansas	423	4.2	56.4	20. Tennessee	115	1.1	86.7
9. Michigan	420	4.1	60.5	All others	1,349	13.3	100.0
10. Ohio	380	3.7	64.2				
11. South Dakota	376	3.7	67.9	United States	10,160	100.0	
12. California	366	3.6	71.5				

TABLE 10.—*Grain marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Illinois	397	12.7	12.7	9. Missouri	153	4.9	81.3
2. Iowa	345	11.0	23.7	10. Indiana	126	4.0	85.3
3. Nebraska	337	10.7	34.4	11. Oklahoma	89	2.8	88.1
4. North Dakota	326	10.4	44.8	12. Michigan	83	2.6	90.7
5. Kansas	309	9.9	54.7	All others	290	9.3	100.0
6. Minnesota	268	8.5	63.2				
7. South Dakota	215	6.9	70.1	United States	3,134	100.0	
8. Ohio	196	6.3	76.4				

TABLE 11.—*Dairy marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Minnesota	548	27.9	27.9	8. Oregon	42	2.1	82.6
2. Wisconsin	538	27.4	55.3	9. Ohio	41	2.1	84.7
3. Iowa	228	11.6	66.9	10. South Dakota	28	1.4	86.1
4. Michigan	89	4.5	71.4	All others	273	13.9	100.0
5. New York	78	4.0	75.4				
6. Pennsylvania	59	3.0	78.4	United States	1,966	100.0	
7. Vermont	42	2.1	80.5				

TABLE 12.—*Fruit and vegetable marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. California	246	20.0	20.0	8. Washington	50	4.1	60.4
2. Arkansas	90	7.3	27.3	9. Tennessee	42	3.4	63.8
3. New York	89	7.2	34.5	10. Colorado	38	3.1	66.9
4. Florida	82	6.6	41.1	All others	408	33.1	100.0
5. Minnesota	78	6.3	47.4				
6. Michigan	55	4.5	51.9	United States	1,232	100.0	
7. Texas	54	4.4	56.3				

TABLE 13.—*Livestock marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Iowa	334	20.9	20.9	8. Michigan	82	5.1	81.9
2. Minnesota	300	18.8	39.7	9. Ohio	74	4.6	86.5
3. Illinois	154	9.6	49.3	10. North Dakota	64	4.0	90.5
4. Wisconsin	144	9.0	58.3	All others	151	9.5	100.0
5. Missouri	107	6.7	65.0				
6. Indiana	95	6.0	71.0	United States	1,598	100.0	
7. South Dakota	93	5.8	76.8				

TABLE 14.—*Cotton marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Texas	43	40.2	40.2	8. Mississippi	3	2.8	91.6
2. Georgia	14	13.1	53.3	9. Missouri	3	2.8	94.4
3. Alabama	12	11.2	64.5	10. Tennessee	3	2.8	97.2
4. Arkansas	8	7.5	72.0	11. Arizona	2	1.9	99.1
5. Oklahoma	8	7.5	79.5	12. Louisiana	1	.9	100.0
6. North Carolina	6	5.6	85.1				
7. South Carolina	4	3.7	88.8	United States	107	100.0	

TABLE 15.—*Wool marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. New York	31	27.0	27.0	7. Pennsylvania	6	5.2	67.8
2. Minnesota	12	10.4	37.4	8. Tennessee	5	4.4	72.2
3. West Virginia	10	8.7	46.1	All others	32	27.8	100.0
4. Ohio	7	6.1	52.2				
5. Indiana	6	5.2	57.4	United States	115	100.0	
6. Iowa	6	5.2	62.6				

TABLE 16.—*Miscellaneous selling associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Missouri	125	17.6	17.6	8. Tennessee	23	3.2	56.5
2. Michigan	77	10.9	28.5	9. Illinois	20	2.8	59.3
3. Wisconsin	58	8.2	36.7	10. New York	20	2.8	62.1
4. Pennsylvania	34	4.8	41.5	All others	269	37.9	100.0
5. Texas	31	4.4	45.9				
6. Minnesota	26	3.7	49.6	United States	709	100.0	
7. Mississippi	26	3.7	53.3				

TABLE 17.—*Associations engaged in retailing, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Minnesota	86	12.0	12.0	8. South Dakota	23	3.2	65.5
2. Nebraska	86	12.0	24.0	9. North Dakota	22	3.1	68.6
3. Iowa	84	11.7	35.7	10. Illinois	22	3.1	71.7
4. Kansas	68	9.5	45.2	All others	203	28.3	100.0
5. Wisconsin	49	6.8	52.0				
6. Washington	39	5.4	57.4	United States	717	100.0	
7. Missouri	35	4.9	62.3				

TABLE 18.—*Collective buying associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Pennsylvania	100	23.3	23.3	8. Massachusetts	16	3.7	61.0
2. New York	41	9.6	32.9	9. Ohio	16	3.7	64.7
3. Connecticut	28	6.5	39.4	10. Wisconsin	13	3.0	67.7
4. Virginia	22	5.1	44.5	All others	139	32.3	100.0
5. Indiana	19	4.4	48.9				
6. Iowa	18	4.2	53.1	United States	430	100.0	
7. Michigan	18	4.2	57.3				

TABLE 19.—*Associations, by organization characteristics and States, March, 1924*

State and geographic division	Incorporation				Capital stock				Stock dividends				All members producers				Patronage dividends			
	Number reporting	Incorporated	Not incorporated	Per cent incorporated	Number reporting	With capital stock	Without capital stock	Per cent with capital stock	Number reporting	Paying stock dividends	Not paying stock dividends	Per cent paying stock dividends	Number reporting	All producers	Not all producers	Per cent with members all producers	Number reporting	Paying patronage dividends	Not paying patronage dividends	Per cent paying patronage dividends
Maine	80	78	2	97.5	81	71	10	87.7	77	43	34	55.8	80	50	30	62.5	75	51	24	68.0
New Hampshire	15	11	4	73.3	16	11	5	68.8	15	9	6	60.0	16	8	8	50.0	13	8	5	61.5
Vermont	59	56	3	94.9	59	56	3	94.9	53	39	14	73.6	59	26	33	44.1	57	49	8	86.0
Massachusetts	44	36	8	81.8	46	29	17	63.0	39	22	17	56.4	40	25	15	62.5	37	29	8	78.4
Rhode Island	6	6	-------	100.0	7	7	-------	100.0	6	5	1	83.3	7	3	4	42.9	5	5	-------	100.0
Connecticut	41	37	4	90.2	41	33	8	80.5	39	19	20	48.7	38	25	13	65.8	37	23	14	62.2
New England	245	224	21	91.4	250	207	43	82.8	229	137	92	59.8	240	137	103	57.1	224	165	59	73.7
New York	249	225	24	90.4	260	83	177	31.9	236	59	177	25.0	259	207	52	79.9	219	152	67	69.4
New Jersey	20	18	2	90.0	21	9	12	42.9	18	10	8	55.6	19	12	7	63.2	17	11	6	64.7
Pennsylvania	218	151	67	69.3	225	86	139	38.2	204	56	148	27.5	214	139	75	65.0	187	88	99	47.1
Middle Atlantic	487	394	93	80.9	506	178	328	35.2	458	125	333	27.3	492	358	134	72.8	423	251	172	59.3
Ohio	366	311	55	85.0	369	301	68	81.6	350	206	144	58.9	365	220	145	60.3	341	221	120	64.8
Indiana	297	209	88	70.4	292	174	118	59.6	274	138	136	50.4	288	202	86	70.1	251	159	92	63.3
Illinois	615	494	121	80.3	630	447	183	71.0	577	360	217	62.4	618	348	270	56.3	541	242	299	44.7
Michigan	405	372	33	91.9	402	201	201	50.0	376	138	238	36.7	411	293	118	71.3	364	246	118	67.6
Wisconsin	828	681	147	82.2	857	679	178	79.2	825	460	365	55.8	835	454	381	54.4	763	381	382	49.9
East North Central	2,511	2,067	444	82.3	2,550	1,802	748	70.7	2,402	1,302	1,100	54.2	2,517	1,517	1,000	60.3	2,260	1,249	1,011	55.3
Minnesota	1,241	975	266	78.6	1,304	951	353	72.9	1,216	644	572	53.0	1,280	744	536	58.1	1,156	749	407	64.8
Iowa	1,006	839	167	83.4	1,020	681	339	66.8	936	476	460	50.9	1,001	554	447	55.3	894	459	435	51.3
Missouri	455	319	136	70.1	459	321	138	69.9	405	264	141	65.2	442	342	100	77.4	388	279	109	71.9
North Dakota	454	384	70	84.6	451	370	81	82.0	434	328	106	75.6	446	317	129	71.1	435	328	107	75.4
South Dakota	373	293	80	78.6	371	277	94	74.7	349	238	111	68.2	368	213	155	57.9	350	270	80	77.1
Nebraska	455	428	27	94.1	473	444	29	93.9	466	375	91	80.5	469	294	175	62.7	450	327	123	72.7
Kansas	414	379	35	91.5	416	382	34	91.8	396	319	77	80.6	411	273	138	66.4	406	326	80	80.3
West North Central	4,398	3,617	781	82.2	4,494	3,426	1,068	76.2	4,202	2,644	1,558	62.9	4,417	2,737	1,680	62.0	4,079	2,738	1,341	67.1

Delaware	11	8	3	72.7	11	5	6	45.5	9	3	6	33.3	9	6	3	66.7	9	2	7	22.2
Maryland	18	15	3	83.3	16	9	7	56.2	17	10	7	58.8	17	13	4	76.5	17	8	9	47.1
District of Columbia	1	1		100.0	1		1		1				1	1		100.0	1		1	
Virginia	89	49	40	55.1	89	45	44	50.6	85	37	48	43.5	87	66	21	75.9	76	31	45	40.8
West Virginia	29	7	22	24.1	29	4	25	13.8	27	1	26	3.7	28	16	12	57.1	26	8	18	30.8
North Carolina	53	36	17	67.9	52	31	21	59.6	49	27	22	55.1	49	35	14	71.4	44	26	18	59.1
South Carolina	15	12	3	80.0	15	10	5	66.7	15	6	9	40.0	16	9	7	56.2	15	9	6	60.0
Georgia	49	33	16	67.3	47	25	22	53.2	43	19	24	44.2	48	32	16	66.7	41	24	17	58.5
Florida	70	53	17	75.7	83	15	68	18.1	72	13	59	18.1	83	69	14	83.1	77	62	15	80.5
South Atlantic	335	214	121	63.9	343	144	199	42.0	318	116	202	36.5	338	247	91	73.1	306	170	136	55.6
Kentucky	57	35	22	61.4	57	22	35	38.6	51	15	36	29.4	53	45	8	84.9	42	28	14	66.7
Tennessee	113	43	70	38.1	114	27	87	23.7	100	15	85	15.0	106	82	24	77.4	91	67	24	73.6
Alabama	72	35	37	48.6	72	17	55	23.6	65	10	55	15.4	68	57	11	83.8	54	32	22	59.3
Mississippi	47	19	28	40.4	49	12	37	24.5	41	5	36	12.2	47	38	9	80.9	43	25	18	58.1
East South Central	289	132	157	45.7	292	78	214	26.7	257	45	212	17.5	274	222	52	81.0	230	152	78	66.1
Arkansas	116	58	58	50.0	117	35	82	29.9	104	19	85	18.3	119	100	19	84.0	93	70	23	75.3
Louisiana	34	22	12	64.7	36	13	23	36.1	31	12	19	38.7	36	34	2	94.4	31	25	6	80.6
Oklahoma	142	129	13	90.8	144	122	22	84.7	135	98	37	72.6	140	86	54	61.4	131	107	24	81.7
Texas	164	117	47	71.3	173	89	84	51.1	159	70	89	44.0	180	137	43	76.1	150	91	56	62.7
West South Central	456	326	130	71.5	470	259	211	55.1	429	199	230	46.4	475	357	118	75.2	405	296	109	73.1
Montana	99	92	7	92.9	105	87	18	82.9	98	70	28	71.4	104	75	29	72.1	99	68	31	68.7
Idaho	58	49	9	84.5	60	39	21	65.0	52	27	25	51.9	58	35	23	60.3	50	33	17	66.0
Wyoming	20	12	8	60.0	19	9	10	47.4	17	8	9	47.1	19	11	8	57.9	15	7	8	46.7
Colorado	100	89	11	89.0	107	72	35	67.3	95	53	42	55.8	111	77	34	69.4	99	74	25	74.7
New Mexico	18	14	4	77.8	18	11	7	61.1	16	8	8	50.0	18	11	7	61.1	18	12	6	66.7
Arizona	21	14	7	66.7	22	8	14	36.4	22	2	20	9.1	23	17	6	73.9	19	13	6	68.4
Utah	34	22	12	64.7	35	21	14	60.0	32	19	13	59.4	38	31	7	81.6	30	15	15	50.0
Nevada	3	2	1	66.7	4	1	3	25.0	4		4		4	3	1	75.0	3	2	1	66.7
Mountain	353	294	59	83.3	370	248	122	67.0	336	187	149	55.7	375	260	115	69.3	333	221	109	67.3
Washington	156	142	14	91.0	158	129	29	81.6	154	81	73	52.6	166	104	62	62.7	141	68	73	48.2
Oregon	97	85	12	87.6	96	78	18	81.2	94	50	44	53.2	98	69	29	70.4	91	65	26	71.4
California	319	300	19	94.0	338	163	175	48.2	318	66	252	20.8	355	320	35	90.1	315	271	44	86.0
Pacific	572	527	45	92.1	592	370	222	62.5	566	197	369	34.8	619	493	126	79.6	547	404	143	73.9
United States	9,646	7,795	1,851	80.8	9,867	6,712	3,155	68.0	9,197	4,952	4,245	53.8	9,747	6,328	3,419	64.9	8,807	5,649	3,158	64.1

TABLE 20.—*Associations, by kinds and organization characteristics, March, 1924*

Selling	Incorporated			Capital stock			Stock dividends			All producers			Patronage dividends		
	Number reporting	Number incorporated	Per cent incorporated	Number reporting	Number with capital stock	Per cent with capital stock	Number reporting	Number paying stock dividends	Per cent paying stock dividends	Number reporting	Number with all producers	Per cent with all producers	Number reporting	Number paying patronage dividends	Per cent paying patronage dividends
Cotton	103	95	92.2	103	78	75.7	97	67	69.1	102	56	54.9	90	38	42.2
Dairy products	1,818	1,640	90.2	1,906	1,606	84.3	1,826	980	53.7	1,875	923	49.2	1,730	1,140	65.9
Fruits and vegetables	1,067	806	75.5	1,107	462	41.7	985	231	23.5	1,166	1,007	86.4	959	769	80.2
Forage	18	15	83.3	20	5	25.0	18	5	27.8	19	19	100.0	17	12	70.6
Grain	3,080	3,040	98.7	3,114	3,036	97.5	3,007	2,573	85.6	3,080	1,585	51.5	2,988	1,955	65.4
Livestock	1,515	616	40.7	1,545	275	17.8	1,340	141	10.5	1,504	1,349	89.7	1,219	655	53.7
Nuts	50	48	96.0	48	12	25.0	48	1	2.1	49	47	95.9	46	44	95.7
Poultry and poultry products	53	25	47.2	56	21	37.5	50	17	34.0	54	45	83.3	51	33	64.7
Tobacco	25	25	100.0	25	11	44.0	21	5	23.8	21	17	81.0	20	15	75.0
Wool	112	55	49.1	115	15	13.0	100	7	7.0	109	101	92.7	87	43	49.4
Miscellaneous selling	696	538	77.3	697	393	56.4	646	295	45.7	692	545	78.8	619	413	66.7
Buying merchandise (stores)	693	658	94.9	707	677	95.8	683	556	81.4	696	339	48.7	658	396	60.2
Miscellaneous buying	416	234	56.2	424	121	28.5	376	74	19.7	390	305	78.2	323	136	42.1
Total	9,646	7,795	80.8	9,867	6,712	68.0	9,197	4,952	53.8	9,757	6,338	65.0	8,807	5,649	64.1

Distribution of Cooperative Business by Kinds of Associations, 1913, 1915, 1921, 1922

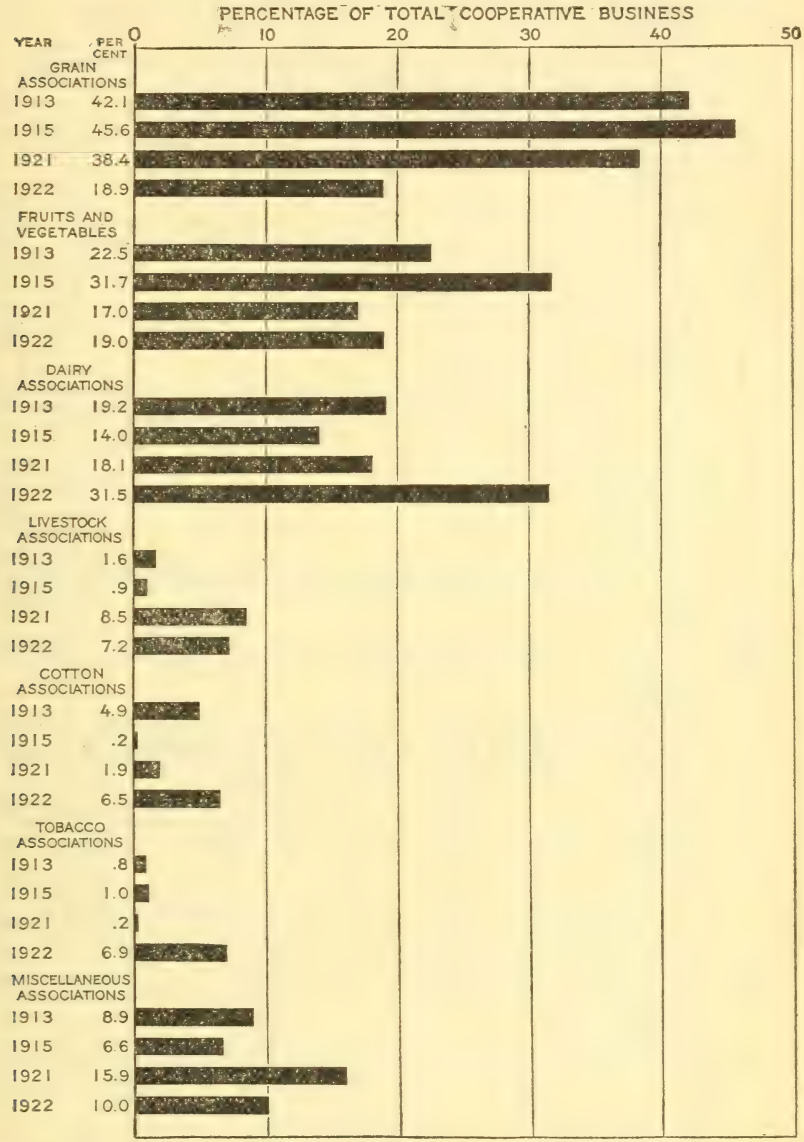

FIG. 20.—Whereas in 1913 over 42 per cent of the total agricultural cooperative business in the United States was transacted by grain-marketing associations, 18.9 per cent was handled by such organizations in 1922. Gains in relative importance were made during the 10-year period by the associations handling dairy products, cotton, and tobacco. (See Table 25.)

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TABLE 21.—*Associations reporting membership, by kinds and States, March, 1924*

State and geographic division	Cotton		Creameries[1]		Fruits and vegetables[1]		Grain		Livestock		Tobacco		Rice	
	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members
Maine			4	262	5	139	1	94						
New Hampshire							1	120						
Vermont			32	3,334										
Massachusetts			5	309	2	396	1	32						
Rhode Island			1	50										
Connecticut			5	333			1	28			1	3,389		
New England			47	4,288	7	535	4	274			1	3,389		
New York			20	1,606	62	6,365	2	605			1	280		
New Jersey					3	98								
Pennsylvania			32	2,237	10	761	3	362						
Middle Atlantic			52	3,843	75	7,224	5	967			1	280		
Ohio			9	408	10	863	155	24,136	16	5,477				
Indiana			7	971	3	107	91	12,887	12	3,206				
Illinois			4	324	3	191	328	39,318	43	8,932				
Michigan			62	14,599	35	5,148	67	14,716	21	3,427				
Wisconsin			197	28,643	6	946	43	7,335	41	6,130	1	6,672		
East North Central			279	44,945	57	7,255	684	98,392	133	27,172	1	6,672		
Minnesota			472	62,367	35	3,508	204	31,803	123	19,420				
Iowa			199	29,026	2	270	232	31,295	135	17,021				
Missouri	1	527	6	902	16	4,684	119	18,144	24	3,265				
North Dakota			7	936	10	546	251	25,901	9	668				
South Dakota			20	7,993	3	194	148	19,274	34	5,002				
Nebraska			11	10,689	2	453	247	30,177	7	1,555				
Kansas			1	507	3	140	217	29,911	6	1,941				
West North Central	1	527	716	112,420	71	9,795	1,418	186,505	338	48,872				
Delaware			1	17	1	75								
Maryland					3	1,003	2	760			1	4,600		
Virginia			5	883	5	6,426								
West Virginia					4	109			1	115				
North Carolina	1	31,892	1	31	8	564	1	155			1	90,226		

South Carolina	1	13,660			6	430								
Georgia	1	36,302			3	977								
Florida			1	76	54	4,524								
South Atlantic	3	81,794	8	1,007	84	14,168	3	915	1	115	2	94,826		
Kentucky			2	288	4	948			3	458	2	166,330		
Tennessee	1	6,586	12	3,157	14	2,097	1	65	2	525				
Alabama	1	20,300	1	114	13	1,851								
Mississippi	2	20,510	2	114	2	50								
East South Central	4	47,396	17	3,673	33	4,946	1	65	5	783	2	166,330		
Arkansas	1	10,676			37	2,709							1	1,031
Louisiana	1	5,159			5	861					1	66	3	2,516
Oklahoma	1	52,570			4	222	67	17,227						
Texas	1	30,134	2	68	21	1,089	12	4,069						
West South Central	4	98,539	2	68	67	4,881	79	21,296			1	66	4	3,547
Montana			4	286	3	325	49	6,185	3	258				
Idaho			6	3,937	7	2,444	7	977						
Wyoming			1	66	2	110	4	328						
Colorado			6	1,156	9	834	43	6,303						
New Mexico					2	78	3	148						
Arizona	1	1,283			3	245	1	285						
Utah			2	78	4	312	3	382						
Nevada							1	32	1	26				
Mountain	1	1,283	19	5,523	30	4,348	111	13,640	4	284				
Washington			9	1,459	28	3,901	34	5,355						
Oregon			9	2,538	14	5,951	8	3,628						
California			15	5,953	163	35,385	11	2,523	1	150			1	593
Pacific			33	9,950	205	45,237	53	11,506	1	150			1	593
United States	13	229,539	1,173	185,717	629	98,329	2,358	333,560	482	77,376	8	271,563	5	4,140
Average		17,657		158		156		141		161		33,945		828

[1] Data collected in summer of 1923.

TABLE 22.—*Distribution of associations, by membership groups, March, 1924*

Membership group	Grain			Fruit and vegetable [1]			Livestock			Creameries [1]			Cheese factories		
	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent
25 or fewer	104	4.0		170	25.6		21	3.5		45	3.6		149	42.9	
50 or fewer [2]	368	14.3	14.3	306	46.0	46.0	98	16.3	16.3	213	17.0	17.0	297	85.6	85.6
51 to 100	962	37.4	51.7	137	20.6	66.6	164	27.2	43.5	433	34.4	51.4	33	9.5	95.1
101 to 150	575	22.3	74.0	92	13.8	80.4	116	19.2	62.7	243	19.3	70.7	9	2.6	97.7
151 to 200	301	11.7	85.7	38	5.7	86.1	88	14.6	77.3	143	11.4	82.1	1	.3	98.0
201 to 250	160	6.2	91.9	18	2.7	88.8	50	8.3	85.6	73	5.8	87.9	3	.9	98.9
251 to 300	85	3.3	95.2	19	2.9	91.7	35	5.8	91.4	39	3.1	91.0	0		98.9
301 to 350	44	1.7	96.9	8	1.2	92.9	12	2.0	93.4	30	2.4	93.4	0		98.9
351 to 400	29	1.1	98.0	6	.9	93.8	14	2.3	95.7	23	1.8	95.2	1	.3	99.2
401 to 450	11	.4	98.4	5	.8	94.6	3	.5	96.2	7	.6	95.8	0		99.2
451 to 500	7	.3	98.7	8	1.2	95.8	6	1.0	97.2	11	.9	96.7	0		99.2
Over 500	34	1.3	100.0	28	4.2	100.0	17	2.8	100.0	42	3.3	100.0	3	.8	100.0
Total	2,576	100.0		665	100.0		603	100.0		1,257	100.0		347	100.0	

[1] Data collected in summer of 1923.

[2] Includes 25 or fewer.

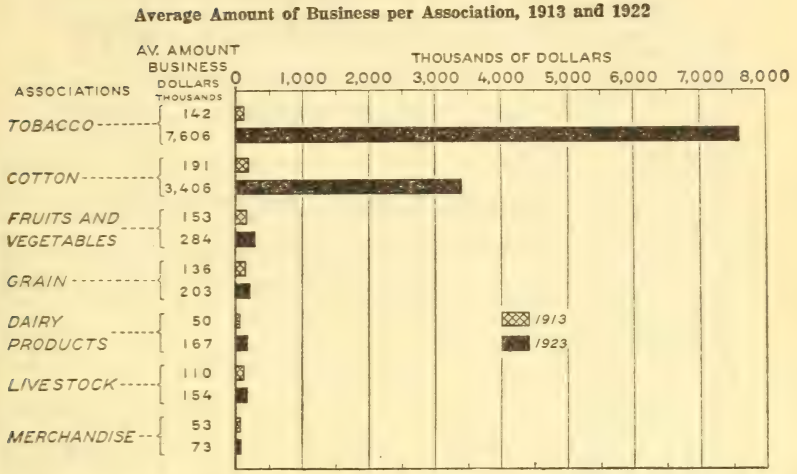

FIG. 21.—In 1913 the average amount of business per association for the 3,099 associations reporting was $100,000 and in 1922 the average amount for the 4,103 associations reporting was $215,000. While the averages for the tobacco and cotton associations increased greatly, the average for the other groups of associations also increased. (See Table 28.)

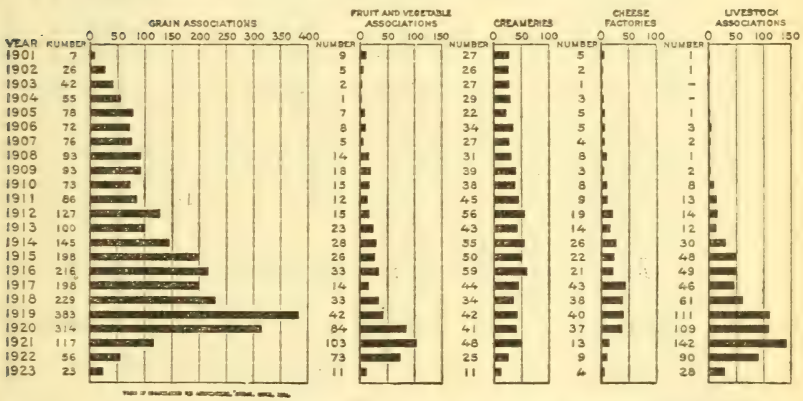

FIG. 22.—Reports regarding year of organization have been received from 5,352 associations now active. A larger number of the grain associations were formed in 1919 than in any other year. The banner year for fruit and vegetable associations was 1921, for creameries 1916, for cheese factories 1917, and for livestock-shipping associations 1921. (See Table 29.)

TABLE 23.—*Associations reporting amount of business, by kinds and States, 1921*

[In thousands of dollars]

State and geographic division	Cotton and cotton products		Dairy products		Forage crops		Fruit and vegetable		Grain		Live-stock		Nuts		Poultry and poultry products		Tobacco		Wool and mohair		Miscellaneous selling		Merchandise (Farmers' stores)		Miscellaneous buying		Total	
	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business	Number of associations	Amount of business
Maine			6	$5,138			25	$919	1	$40									1	$30	8	$701	20	$1,705	6	$185	67	$8,718
New Hampshire									1	137									1	120	2	338	2	130	5	324	11	1,049
Vermont			33	5,418			1	19													5	357			5	355	44	6,149
Massachusetts			11	1,552			4	1,447	1	24							2	$210			4	2,102			14	723	36	6,058
Rhode Island			2	484																	1	458	1	49	3	39	7	1,030
Connecticut			7	304																					24	644	31	948
New England			59	12,896			30	2,385	3	201							2	210	2	150	20	3,956	23	1,884	57	2,270	196	23,952
New York			53	67,861	2	$115	50	4,316	3	1,198	1	$5			2	$501	1	100	16	137	13	473	8	569	31	4,358	180	79,633
New Jersey							4	4,199													1	89	2	125	8	504	15	4,917
Pennsylvania			36	4,487			8	1,698	2	123	1	25			1	10	2	170	5	64	21	1,025	7	415	58	1,746	141	9,763
Middle Atlantic			89	72,348	2	115	62	10,213	5	1,321	2	30			3	511	3	270	21	201	35	1,587	17	1,109	97	6,608	336	94,313
Ohio			21	2,317			7	1,935	159	25,667	46	6,891					1	3	3	125	11	1,480	7	456	13	374	268	39,248
Indiana			5	498			2	42	83	11,143	69	7,717							5	54	7	441	9	381	12	583	192	20,859
Illinois			8	826			6	94	294	52,149	94	7,872			1	13			1	7,160	17	731	16	1,423	5	60	442	70,328
Michigan			74	7,903			37	3,202	71	11,558	66	6,567									63	8,836	13	842	15	175	339	39,083
Wisconsin			441	35,439			15	2,103	44	4,150	105	8,644					2	13			49	3,016	44	4,706	10	197	710	58,268
East North Central			549	46,983			67	7,376	651	104,667	380	37,691			1	13	3	16	9	7,339	147	14,504	89	7,808	55	1,389	1,951	227,786
Minnesota			488	44,576			48	1,414	221	66,413	182	20,420			2	54			6	27	19	1,635	76	4,276	6	121	1,048	138,936
Iowa			193	16,021			4	295	280	48,672	190	25,981			1	10			3	32	12	1,258	70	4,246	14	1,163	767	97,678
Missouri	2	$103	8	1,060	1	60	18	1,647	110	21,258	66	10,627							1	20	84	59,235	30	2,552	3	50	323	96,612
North Dakota			14	408			16	461	240	33,602	38	1,276							1	95	1	80	19	699			329	36,621
South Dakota			26	1,727			8	189	166	25,840	46	3,587									3	115	22	1,183	3	93	274	32,734
Nebraska			12	2,257			2	46	273	52,372	17	1,976			1	40					4	1,912	67	3,935	3	67	379	62,605
Kansas			3	89			2	6	262	62,503	17	871							1	115	3	335	58	4,694	3	15	349	68,628
West North Central	2	103	744	66,138	1	60	98	4,058	1,552	310,660	556	64,738			4	104			12	289	126	64,570	342	21,585	32	1,509	3,469	533,814

Delaware			1	12			1	93													2	92			2	25	6	222
Maryland			1	180			4	753	1	300							1	2,725			2	105	1	225	2	32	12	4,320
Virginia			7	574	1	40	5	22,477	1	33	9	316	1	$2,428					1	60	8	221	14	1,065	19	198	66	27,412
West Virginia							5	167			1	12							9	62	4	46			5	43	24	330
North Carolina	4	161	6	91			6	1,935													6	166	8	403	7	35	37	2,791
South Carolina	2	40			1	9	6	2,589																	1	5	10	2,643
Georgia	4	311	1	3			4	807					1	200							14	754	1	67	2	45	27	2,187
Florida							42	8,469							1	2					2	11	2	275	1	2,000	48	10,757
South Atlantic	10	512	16	860	2	49	73	37,290	2	333	10	328	2	2,628	1	2	1	2,725	10	122	38	1,395	26	2,035	39	2,383	230	50,662
Kentucky			3	460			3	1,225			5	415			3	5			2	17	5	69	4	244	6	83	31	2,518
Tennessee			12	1,214	1	10	24	1,569	1	7	9	261							5	81	12	591	2	156	1	26	67	3,915
Alabama	5	134	2	121			16	885			9	320									11	424			4	46	47	1,930
Mississippi			2	75			7	486							1	2					13	642					23	1,205
East South Central	5	134	19	1,870	1	10	50	4,165	1	7	23	996			4	7			7	98	41	1,726	6	400	11	155	168	9,568
Arkansas	4	2,353					46	1,976	2	4,050	1	15							1	5	4	2,536	8	100	1	15	67	11,050
Louisiana							14	1,316	3	7,026											4	110	1	150			22	8,602
Oklahoma	4	8,468	1	28			5	41	69	14,624											6	1,396	4	728	1	8	90	25,293
Texas	21	10,428	3	420	2	158	26	526	10	4,129	2	25	17	3,280	2	17			2	937	17	3,386	8	732	2	40	112	24,078
West South Central	29	21,249	4	448	2	158	91	3,859	84	29,829	3	40	17	3,280	2	17			3	942	31	7,428	21	1,710	4	63	291	69,023
Montana			4	412			6	1,014	52	7,543	6	58							1	20	4	155	10	821	2	7	85	10,030
Idaho			7	1,290			4	672	8	1,125									1	65	7	1,232	5	313	2	25	34	4,722
Wyoming							1	3	7	612									1	150	3	32	2	310			14	1,107
Colorado			7	989			13	3,375	34	8,240	5	1,880							1	100	4	772	5	147			69	15,503
New Mexico					2	175	2	55	5	324									1	10	5	211					15	775
Arizona	1	1,500					4	508													6	215			2	93	13	2,316
Utah			4	47			3	145	1	76					2	6					4	124	4	443	1	1	19	842
Nevada											2	14															2	14
Mountain	1	1,500	22	2,738	2	175	33	5,772	107	17,920	13	1,952			2	6			5	345	33	2,741	26	2,034	7	126	251	35,309
Washington			18	4,214			28	9,384	37	9,926					1	3,000					5	134	27	2,602	3	195	119	29,455
Oregon			37	2,828	1	100	23	8,340	7	302	2	85	1	17	1	785			1	300	8	562	3	201	2	36	86	13,556
California			22	16,659	3	185	179	120,400	9	7,295	3	985	37	10,155	7	10,566					6	912	7	818	4	801	277	168,776
Pacific			77	23,701	4	285	230	138,124	53	17,523	5	1,070	38	10,172	9	14,351			1	300	19	1,608	37	3,621	9	1,032	482	211,787
United States	47	23,498	1,579	227,982	14	852	734	213,242	2,458	482,461	992	106,845	57	16,080	26	15,011	9	3,221	70	9,786	490	99,515	587	42,186	311	15,535	7,374	1,256,214
Average		500		144		61		291		196		108		282		577		358		140		203		72		50		170

TABLE 24.—*Associations reporting amount of business, by States, 1912–1917, 1921–22*

State and geographic division	1912 [1]			1913			1914 [1]			1915			1916			1917			1921			1922		
	Number of associations reporting	Amount	Average (in thousands)	Number of associations reporting	Amount	Average (in thousands)	Number of associations reporting	Amount	Average (in thousands)	Number of associations reporting	Amount (in thousands)	Average (in thousands)	Number of associations reporting	Amount (in thousands)	Average (in thousands)	Number of associations reporting	Amount (in thousands)	Average (in thousands)	Number of associations reporting	Amount (in thousands)	Average (in thousands)	Number of associations reporting	Amount (in thousands)	Average (in thousands)
Maine	5	$203,000	$41	26	$3,118,482	$120	31	$3,847,191	$124	2	$34	$17	4	$153	$38	5	$3,745	$749	67	$8,718	$130	25	$6,443	$258
New Hampshire				5	121,158	24	5	121,146	24										11	1,049	95	6	712	119
Vermont	14	564,940	40	15	688,472	46	5	252,221	50	6	450	75	5	516	103	5	354	71	44	6,149	140	44	6,340	144
Massachusetts	3	1,019,470	340	18	1,921,600	107	17	811,223	48	2	25	12	1	78	78	2	334	167	36	6,058	168	18	4,093	227
Rhode Island				2	101,630	51	1	34,000	34	1	39	39							7	1,030	147	4	697	174
Connecticut	4	161,900	40	13	613,100	47	10	499,611	50				4	64	16	6	115	19	31	948	31	11	9,420	856
New England	26	1,949,310	75	79	6,564,442	83	69	5,565,392	81	11	548	50	14	811	58	18	4,548	253	196	23,952	122	108	27,705	257
New York	17	4,980,834	293	71	11,579,997	163	71	5,241,364	74	7	527	75	12	1,483	124	8	1,345	168	180	79,633	442	136	98,655	725
New Jersey	2	1,403,000	702	8	2,155,174	269	8	2,009,260	251	2	2,002	1,001	1	109	109	3	4,116	1,372	15	4,917	328	7	3,593	513
Pennsylvania	13	989,252	76	36	1,484,912	41	43	1,266,186	29	4	323	81	7	256	37	4	507	127	141	9,763	69	80	8,537	107
Middle Atlantic	32	7,373,086	230	115	15,220,083	132	122	8,516,810	70	13	2,852	219	20	1,848	92	15	5,968	398	336	94,313	281	223	110,785	497
Ohio	11	502,332	46	61	3,976,506	65	56	5,002,920	89	6	624	104	17	2,374	140	22	4,568	208	268	39,248	146	113	20,431	181
Indiana	16	1,457,003	91	49	3,438,102	70	44	2,052,071	47	5	355	71	9	919	102	10	1,428	143	192	20,859	109	79	7,549	96
Illinois	27	4,301,784	159	174	25,696,351	148	161	23,870,199	148	17	2,739	161	44	8,385	191	41	11,133	272	442	70,328	159	188	29,433	157
Michigan	14	645,600	46	82	5,076,987	62	75	5,876,636	78	14	1,092	78	22	2,556	116	23	3,857	168	339	39,083	115	197	26,124	133
Wisconsin	91	4,148,277	46	275	12,836,553	47	218	10,768,704	49	54	3,148	58	88	6,431	73	60	6,385	106	710	58,268	82	604	52,448	87
East North Central	159	11,054,996	70	641	51,024,499	80	554	47,570,530	86	96	7,958	83	180	20,665	115	156	27,371	175	1,951	227,786	117	1,181	135,985	115
Minnesota	208	11,507,739	55	648	40,125,895	62	529	32,345,315	61	115	7,724	67	189	15,282	81	131	40,994	313	1,048	138,936	133	769	74,678	97
Iowa	141	15,919,199	113	371	38,420,808	104	261	24,679,403	95	70	7,056	101	117	14,649	125	96	18,518	193	767	97,678	127	421	51,389	122
Missouri	4	201,830	50	45	2,023,420	45	51	2,406,767	47	7	320	46	6	283	47	11	1,788	163	323	96,612	299	154	60,705	394
North Dakota	76	11,172,899	147	162	20,122,034	124	145	16,908,098	117	32	6,774	212	83	12,383	149	97	15,194	157	329	36,621	111	91	9,317	102
South Dakota	18	2,055,839	114	108	10,855,836	101	112	12,813,129	114	26	3,164	122	67	9,822	147	64	10,975	171	274	32,734	119	118	11,516	98
Nebraska	33	6,080,103	184	122	14,377,669	118	160	20,062,993	125	25	2,853	114	75	14,399	192	89	21,794	245	379	62,605	165	144	25,426	177
Kansas	42	6,641,996	158	128	13,893,671	109	139	21,364,329	154	30	3,675	122	60	9,720	162	63	13,905	221	349	68,628	197	131	22,962	175
West North Central	522	53,579,605	103	1,584	139,819,333	88	1,397	130,580,034	93	305	31,566	103	597	76,538	128	551	123,168	224	3,469	533,814	154	1,828	255,993	1

Delaware	1	500,000	500	4	560,075	140	3	64,309	21				2	5	2	1	1	1	6	222	37	2	90	45
Maryland	1	1,250,000	1,250	7	1,488,559	213	8	288,304	36				1	1	1				12	4,320	360	7	2,250	321
Virginia	6	4,227,000	704	15	5,935,600	396	18	365,809	20	2	28	14	4	42	10	3	57	19	66	27,412	415	28	19,874	710
West Virginia				1	9,000	9	3	25,000	8	1	1	1	2	110	55	3	51	17	24	330	14	7	311	44
North Carolina	6	197,000	33	40	4,995,732	125	33	6,049,600	183	3	58	19	9	247	27	6	157	26	37	2,791	75	24	20,915	871
South Carolina				13	790,222	61	23	698,100	30	2	813	406	1	291	291	1	558	558	10	2,643	264	8	2,683	335
Georgia	1	2,250,000	2,250	19	2,027,800	107	18	2,021,660	112	1	1	1	1	60	60	1	100	100	27	2,187	81	8	803	101
Florida	1	90,000	90	29	1,982,600	68	33	2,340,550	71	3	152	51	3	250	83	1	110	110	48	10,757	224	51	11,329	222
South Atlantic	16	8,514,000	532	128	17,789,588	139	139	11,853,332	85	12	1,053	88	23	1,006	44	16	1,034	65	230	50,662	220	135	58,260	432
Kentucky	3	33,200	11	34	2,494,179	73	32	2,506,367	78	3	187	62	3	110	37				31	2,518	81	15	51,585	3,439
Tennessee	1	2,000	2	16	363,933	23	32	800,350	25	3	70	23	7	185	26	7	761	109	67	3,915	58	43	3,484	81
Alabama	1	42,624	43	14	5,663,177	405	20	6,670,200	334	2	33	16	2	78	39				47	1,930	41	8	423	53
Mississippi				22	896,210	41	31	556,791	18				1	4	4	2	17	8	23	1,205	52	15	21,070	1,405
East South Central	5	77,824	16	86	9,417,804	110	115	10,533,708	92	8	290	36	13	377	29	9	778	86	168	9,568	57	81	76,562	945
Arkansas				46	2,024,504	44	52	1,812,285	35	2	60	30	3	43	14	1	125	125	67	11,050	165	39	4,163	107
Louisiana	4	501,979	125	22	824,683	37	20	432,726	22				1	150	150	1	208	208	22	8,602	391	9	9,047	1,005
Oklahoma	4	255,330	64	22	1,191,330	54	26	1,959,745	75	4	546	136	5	805	161	13	3,137	241	90	25,293	281	35	11,677	334
Texas	6	2,912,000	485	46	5,509,947	120	61	4,580,505	72	6	168	28	8	315	39	5	222	44	112	24,078	215	48	12,304	256
West South Central	14	3,669,309	262	136	9,550,464	70	162	8,785,261	54	12	774	64	17	1,313	77	20	3,692	185	291	69,023	237	131	37,191	284
Montana	3	187,000	62	23	2,224,735	97	25	3,501,554	140	9	1,303	145	21	2,833	135	22	3,178	144	85	10,030	118	28	2,941	105
Idaho	2	7,000	4	28	2,118,207	76	32	2,694,091	84	4	407	102	4	842	210	1	25	25	34	4,722	139	17	2,771	163
Wyoming				3	452,000	151	10	577,602	58	1	105	105	2	369	184	3	562	187	14	1,107	79	6	458	76
Colorado	15	2,618,175	175	29	2,345,951	81	25	1,302,251	52	5	425	85	8	1,243	155	6	2,824	471	69	15,503	225	30	7,246	242
New Mexico	3	287,278	96	6	451,467	75	6	422,751	70										15	775	52	4	184	46
Arizona	1	40,000	40	2	157,500	79	2	316,500	158	1	40	40	2	105	52	1	53	53	13	2,316	178	4	2,166	542
Utah	3	55,903	19	16	1,305,162	82	17	1,362,702	80	2	75	38	2	102	51	2	43	22	19	812	44	13	786	60
Nevada				1	7,850	8	1	8,000	8										2	14	7	2	32	16
Mountain	27	3,195,356	118	108	9,062,872	84	118	10,188,451	86	22	2,355	107	39	5,494	141	35	6,685	191	251	35,309	141	104	16,584	159
Washington	18	4,153,387	231	78	14,882,041	191	81	16,594,291	205	12	3,543	295	17	2,791	164	25	6,080	243	119	29,455	248	71	28,419	400
Oregon	12	3,008,034	251	42	6,822,221	162	44	3,902,311	89	2	125	62	6	293	49	5	292	58	86	13,556	158	65	16,072	247
California	58	26,640,166	459	102	30,159,948	296	76	20,050,096	264	11	1,658	151	13	3,465	267	9	12,520	1,391	277	168,776	609	176	121,627	691
Pacific	88	33,801,587	384	222	51,864,210	231	201	40,546,698	202	25	5,326	213	36	6,549	182	39	18,892	484	482	211,787	439	312	166,118	532
United States	889	123,215,073	139	3,099	310,313,295	100	2,877	274,140,216	95	501	52,722	105	939	114,601	122	859	192,136	224	7,374	1,256,214	170	4,103	885,183	216

[1] Source of data: Department Bulletin No. 547.

TABLE 25.—*Amount of business, by kind of association, 1913, 1915, 1921, and 1922*

Kind of association	1913 [1]		1915 [2]		1921 [3]		1922 [4]	
	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
Grain	$130,555,221	42.1	$289,689,218	45.6	$482,461,000	38.4	$167,610,000	18.9
Fruit and vegetables	69,921,381	22.5	201,542,646	31.7	213,242,000	17.0	168,176,000	19.0
Dairy products	59,701,105	19.2	89,061,370	14.0	227,982,000	18.1	279,195,000	31.5
Livestock	4,823,539	1.6	5,623,800	.9	106,845,000	8.5	63,424,000	7.2
Cotton	15,097,844	4.9	1,502,007	.2	23,498,000	1.9	57,898,000	6.5
Tobacco	2,555,420	.8	6,450,000	1.0	3,221,000	.2	60,849,000	6.9
Merchandise (farmers' stores)	5,928,117	1.9	11,677,355	1.8	42,186,000	3.4	23,507,000	2.7
All others	21,730,668	7.0	30,292,288	4.8	156,779,000	12.5	64,524,000	7.3
Total	310,313,295	100.0	635,838,684	100.0	1,256,214,000	100.0	885,183,000	100.0

[1] Based on reports from 3,099 associations. See Table 1.
[2] Based on estimated business for 5,424 associations. See Table 4.
[3] Based on reports from 7,374 associations. See Table 23.
[4] Based on reports from 4,103 associations. See Table 24.

TABLE 26.—*Associations grouped according to amount of business transacted*

Group	Grain [1]			Fruit and vegetables [2]			Livestock [1]			Creameries [2]			Cheese factories [2]		
	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent
$20,000 and under	57	3.1	3.1	149	25.5	25.5	55	13.5	13.5	65	5.7	5.7	109	33.2	33.2
$21,000 to $40,000	96	5.2	8.3	71	12.1	37.6	65	15.9	29.4	151	13.3	19.0	120	36.6	69.8
$41,000 to $60,000	132	7.1	15.4	50	8.6	46.2	55	13.5	42.9	190	16.7	35.7	56	17.1	86.9
$61,000 to $80,000	180	9.7	25.1	39	6.7	52.9	44	10.8	53.7	185	16.2	51.9	21	6.4	93.3
$81,000 to $100,000	249	13.4	38.5	37	6.3	59.2	39	9.6	63.3	142	12.5	64.4	9	2.8	96.1
$101,000 to $120,000	129	6.9	45.4	18	3.1	62.3	33	8.1	71.4	89	7.8	72.2	1	.3	96.4
$121,000 to $140,000	119	6.4	51.8	24	4.1	66.4	25	6.1	77.5	71	6.2	78.4	4	1.2	97.6
$141,000 to $160,000	156	8.4	60.2	25	4.3	70.7	21	5.1	82.6	53	4.7	83.1	1	.3	97.9
$161,000 to $180,000	103	5.5	65.7	11	1.9	72.6	10	2.4	85.0	40	3.5	86.6	----	----	----
$181,000 to $200,000	165	8.9	74.6	10	1.7	74.3	5	1.2	86.2	34	3.0	89.6	2	.6	98.5
$201,000 to $300,000	268	14.4	89.0	48	8.2	82.5	37	9.1	95.3	61	5.4	95.0	5	1.5	100.0
$301,000 to $400,000	108	5.8	94.8	20	3.4	85.9	7	1.7	97.0	27	2.4	97.4	----	----	----
$401,000 to $500,000	49	2.6	97.4	27	4.6	90.5	6	1.5	98.5	13	1.1	98.5	----	----	----
$501,000 to $1,000,000	40	2.1	99.5	30	5.1	95.6	6	1.5	100.0	13	1.1	99.6	----	----	----
Over $1,000,000	10	.5	100.0	26	4.4	100.0	----	----	----	5	.4	100.0	----	----	----
Total	1,861	100.0	----	585	100.0	----	408	100.0	----	1,139	100.0	----	328	100.0	----

[1] Business of 1923. [2] Business of 1922.

TABLE 27.—*Associations reporting amount of business in 1913 compared with 1921 and 1922*

State and geographic division	1913 and 1921 business				1913 and 1922 business			
	Number of associations reporting	1913	1921	Increase or decrease	Number of associations reporting	1913	1922	Increase
		In thousands	*In thousands*	*Per cent*		*In thousands*	*In thousands*	*Per cent*
Maine	6	$2,328	$5,400	132.0	2	$2,162	$4,404	103.7
New Hampshire								
Vermont	2	50	282	464.0	3	131	477	264.1
Massachusetts	5	1,449	1,724	19.0	3	1,309	2,047	56.4
Rhode Island	1	69	49	[1] 29.0				
Connecticut	4	163	228	39.9	4	163	214	31.3
New England	18	4,059	7,683	89.3	12	3,765	7,142	89.7
New York	12	797	1,199	50.4	13	845	1,380	63.3
New Jersey	1	1,053	1,759	67.0	1	1,053	1,428	35.6
Pennsylvania	8	244	1,375	463.5	7	218	465	113.3
Middle Atlantic	21	2,094	4,333	106.9	21	2,116	3,273	54.7
Ohio	12	1,288	3,069	138.3	3	125	193	54.4
Indiana	8	535	721	34.8	6	246	315	28.0
Illinois	64	10,693	14,687	37.4	22	3,046	4,652	52.7
Michigan	27	2,246	4,701	109.3	28	1,670	5,572	233.7
Wisconsin	88	6,276	13,113	108.9	79	5,857	12,753	117.7
East North Central	199	21,038	36,291	72.5	138	10,944	23,485	114.6
Minnesota	253	16,091	27,629	71.7	203	10,695	20,387	90.6
Iowa	123	13,744	15,586	13.4	76	6,760	9,368	38.6
Missouri	16	1,096	1,619	47.7	13	825	3,125	278.8
North Dakota	42	5,111	5,618	9.9	9	522	528	1.1
South Dakota	39	5,019	6,927	38.0	13	1,649	1,949	18.2
Nebraska	46	5,874	8,862	50.9	17	2,007	3,286	63.7
Kansas	41	4,779	11,787	146.6	13	1,339	1,873	39.9
West North Central	560	51,714	78,028	50.9	344	23,797	40,516	70.3
Delaware								
Maryland	1	90	225	150.0				
Virginia	4	4,548	9,260	103.6	4	4,548	9,831	116.2
West Virginia	1	9	8	[1] 11.1				
North Carolina	4	89	564	533.7	4	89	703	689.9
South Carolina								
Georgia								
Florida	11	976	3,521	260.8	10	812	3,482	328.8
South Atlantic	21	5,712	13,578	137.7	18	5,449	14,016	157.2
Kentucky	2	268	705	163.1	2	160	420	162.5
Tennessee	5	56	203	262.5	2	52	85	63.5
Alabama	3	3,795	145	[1] 96.2				
Mississippi								
East South Central	10	4,119	1,053	[1] 74.4	4	212	505	138.2
Arkansas	3	52	557	971.2	4	64	248	287.5
Louisiana	4	118	327	177.1				
Oklahoma	5	329	1,415	330.1	1	110	296	169.1
Texas	6	369	564	52.8	1	22	101	359.1
West South Central	18	868	2,863	229.8	6	196	645	229.1
Montana	5	423	615	45.4	3	214	362	69.2
Idaho	2	57	550	864.9	3	83	748	801.2
Wyoming	1	90	100	11.1				
Colorado	6	763	1,672	119.1	3	669	952	42.3
New Mexico	1	61	75	23.0				
Arizona	1	40	250	525.0	1	40	75	87.5
Utah	4	98	148	51.0	2	80	152	90.0
Nevada								
Mountain	20	1,532	3,410	122.6	12	1,086	2,289	110.8
Washington	30	4,995	8,752	75.2	10	1,902	2,479	30.3
Oregon	6	804	496	[1] 38.3	3	362	540	49.2
California	21	8,534	42,864	402.3	15	7,513	43,251	475.7
Pacific	57	14,333	52,112	263.6	28	9,777	46,270	373.3
United States	924	105,469	199,351	89.0	583	57,342	138,141	140.9

[1] Decrease.

TABLE 28.—*Average amount of business, by kind of association, 1913 and 1922*

Kind of organization	1913			1922		
	Number reporting	Total amount of business	Average amount of business per association	Number reporting	Total amount of business	Average amount of business per association
Grain	960	$130,551,221	$135,995	826	$167,610,000	$202,918
Dairy products	1,187	59,701,105	50,296	1,675	279,195,000	166,683
Fruit and vegetables	456	69,921,381	153,336	592	168,176,000	284,081
Cotton	79	15,097,844	191,112	17	57,898,000	3,405,765
Merchandise (farmers' stores)	111	5,928,117	53,406	320	23,507,000	73,459
Tobacco	18	2,555,420	141,968	8	60,849,000	7,606,125
Livestock	44	4,823,539	109,626	413	63,424,000	153,569
All others	244	21,730,668	89,060	252	64,524,000	256,048
Total	3,099	310,313,295	100,133	4,103	885,183,000	215,740

TABLE 29.—*Active associations reporting date of organization, 1863–1923*

Year	Grain	Fruit and vegetables	Creameries	Cheese factories	Livestock	Total	Year	Grain	Fruit and vegetables	Creameries	Cheese factories	Livestock	Total
1863				1		1	1900	11	5	33	6		55
1870				1		1	1901	7	9	27	5	1	49
1873				3		3	1902	26	5	26	2	1	60
1878		1				1	1903	42	2	27	1		72
1879			1			1	1904	55	1	29	3		88
1880			1			1	1905	78	7	22	5	1	113
1881							1906	72	8	34	5	3	122
1882				2		2	1907	76	5	27	4	2	114
1883			4	1		5	1908	93	14	31	8	1	147
1884			1	1		2	1909	93	18	39	3	2	155
1885			3			3	1910	73	15	38	8	8	142
1886		1	2			3	1911	86	12	45	9	13	165
1887	2		5	1		8	1912	127	15	56	19	14	231
1888	3		9	2		14	1913	100	23	43	14	12	192
1889	3		12	2		17	1914	145	28	55	26	30	284
1890	2	1	15	1	1	20	1915	198	26	50	22	48	344
1891	3	1	17	1		22	1916	216	33	59	21	49	378
1892	6	1	21	1		29	1917	198	14	44	43	46	345
1893	4	7	18			29	1918	229	33	34	38	61	395
1894	3	1	31			35	1919	383	42	42	40	111	618
1895	4	3	24	3		34	1920	314	84	41	37	109	585
1896	5	2	38	2		47	1921	117	103	48	13	142	423
1897	5	5	33	1	1	45	1922	56	73	25	9	90	253
1898	5	4	38	3		50	1923	23	11	11	4	28	77
1899	7	3	18	3		31							

TABLE 30.—*Associations purchasing supplies, by States, 1924*

State and geographic division	Building materials	Containers	Feeds	Fencing	Fertilizers	Fuel	Hardware	Implements and machinery	Seeds	Spray materials	General merchandise	Miscellaneous	Number of associations reporting
Maine		12	20	2	30		3	5	6	15	13	11	47
New Hampshire	4	1	8		8				6	1		3	10
Vermont	4	5	12		9	1	6	1	8	5	1	8	19
Massachusetts	2	4	15		19			3	11	6	2	11	25
Rhode Island	1	1	3		3				1		1	4	4
Connecticut	3	3	28	2	20	4	2	2	13	2		13	31
New England	14	26	86	4	89	5	11	11	45	29	17	50	136
New York	10	82	49	7	66	16	9	3	42	18	6	38	135
New Jersey	3	8	9		12	2	1		10	5		13	18
Pennsylvania	35	78	69	3	112	16	9	25	62	13	32	69	165
Middle Atlantic	48	168	127	10	190	34	19	28	114	36	38	120	318
Ohio	91	75	198	98	122	141	12	20	51	5	2	124	265
Indiana	34	87	145	58	106	123	7	8	59	2	3	72	216
Illinois	126	108	290	115	28	273	47	51	118	11	23	106	437
Michigan	72	75	199	40	134	114	20	27	124	47	17	109	278
Wisconsin	23	83	190	10	9	69	25	25	41	7	19	148	302
East North Central	346	428	1,022	321	399	720	111	131	393	72	64	559	1,498
Minnesota	44	136	301	32	3	231	32	49	42	27	16	150	511
Iowa	152	139	402	119	7	349	31	26	84	4	21	140	532
Missouri	14	81	258	13	74	77	36	23	71	5	11	132	321
North Dakota	14	84	163	17	1	212	6	32	44	7	10	16	282
South Dakota	14	82	157	23		165	10	22	28	2	7	31	221
Nebraska	77	44	151	29		240	21	73	20	1	22	64	309
Kansas	21	52	257	11	7	217	27	76	57	2	32	68	308
West North Central	336	618	1,689	244	92	1,491	163	301	346	48	119	601	2,484
Delaware		5	2		8			3	2	1	2	4	10
Maryland	3	5	6	2	8	3	2	1	6	2		9	13
Virginia	4	12	9	5	33	3	3	7	31	3	6	19	47
West Virginia	9	7	15	3	20	2	2	3	15	4	1	10	25
North Carolina	1	7	6	1	15	1	3	5	8	3	11	9	31
South Carolina		6	2		2				6			3	10
Georgia	1	7	4		16			1	9	2	1	8	28
Florida		22	9		39		1	10	12	11	4	25	59
South Atlantic	18	71	53	11	141	9	11	30	89	26	25	87	223
Kentucky	2	5	12	1	16	5		2	12	2	1	8	28
Tennessee	5	34	16	5	37	2	2	4	23	4	1	26	73
Alabama		11	12		40	1	7	4	22	5	5	10	51
Mississippi	1	20	13	1	34			1	29		1	18	41
East South Central	8	70	53	7	127	8	9	11	86	11	8	62	193
Arkansas	1	43	7		29	2		2	15	3	2	15	71
Louisiana		15	6		19				10		1	8	25
Oklahoma	4	26	68	7		74	13	7	12		13	18	103
Texas		33	34	4	14	19	6	4	23	2	4	32	86
West South Central	5	117	115	11	62	95	19	13	60	5	20	73	285
Montana	1	26	49	5		26	6	7	10	3	1	18	68
Idaho	1	23	9	2	1	4	5	10	4	8	4	9	35
Wyoming	1	10	10	2		4	2	2	5	2	1	4	15
Colorado	4	38	36	6		29	12	19	15	6	3	24	79
New Mexico	1	7	8	1		5	4	1	3	2		4	14
Arizona		8	1			2	2			1	1	1	11
Utah		8	5		1	4	4	5	2	2		8	16
Nevada			1	1								3	3
Mountain	8	120	119	17	2	74	35	44	39	24	10	71	241
Washington	7	45	38	12	9	28	21	13	6	14	5	32	86
Oregon		23	15	5	8	4		3	4	8	3	18	44
California	4	80	21	5	78	2	14	32	12	44	8	143	225
Pacific	11	148	74	22	95	34	35	48	22	66	16	193	355
United States	794	1,766	3,338	647	1,197	2,470	413	617	1,194	317	317	1,816	5,733

TABLE 31.—*Associations purchasing supplies, by kind of association, 1924*

Kind	Total reporting	Building material		Containers		Feeds		Fencing		Fertilizers		Fuel	
		Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Cotton	31			6	19.4	10	32.3	1	3.2	8	25.8	7	22.6
Dairy products	441	6	1.4	121	27.4	119	27.0	2	.5	11	2.5	80	18.1
Fruit and vegetables	818	18	2.2	460	56.2	126	15.4	16	2.0	329	40.2	26	3.2
Forage	10			6	60.0	2	20.0	1	10.0	3	30.0	3	30.0
Grain	2,836	608	21.4	682	24.0	2,144	75.6	510	18.0	232	8.2	2,015	71.1
Livestock	433	30	6.9	134	30.9	287	66.3	34	7.9	104	24.0	133	30.7
Nuts	9			4	44.4					2	22.2		
Poultry and poultry products	29	1	3.4	6	20.7	17	58.6					1	3.4
Tobacco	6			3	50.0	2	33.3			2	33.3	1	16.7
Wool	57	6	10.5	47	82.5	12	21.1	3	5.3	14	24.6	6	10.5
Miscellaneous selling	638	58	9.1	154	24.1	378	59.2	48	7.5	218	34.2	119	18.7
Miscellaneous buying	425	67	15.8	143	33.6	242	56.9	32	7.5	270	63.5	79	18.6
Total	5,733	794	13.8	1,766	30.8	3,339	58.2	647	11.3	1,193	20.8	2,470	43.1

Kind	Hardware		Implements, machinery		Seeds		Spraying materials		General merchandise		Miscellaneous	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Cotton	1	3.2	2	6.5	7	22.6			3	9.7	9	29.0
Dairy products	46	10.4	17	3.9	14	3.2	1	.2	11	2.5	246	55.8
Fruit and vegetables	34	4.2	62	7.6	159	19.4	199	24.3	37	4.5	297	36.3
Forage	2	20.0	4	40.0	3	30.0					4	40.0
Grain	196	6.9	392	13.8	548	19.3	16	.6	121	4.3	576	20.3
Livestock	18	4.2	19	4.4	59	13.6	4	.9	22	5.1	144	33.3
Nuts							6	66.7			1	11.1
Poultry and poultry products	1	3.4							1	3.4	17	58.6
Tobacco											2	33.3
Wool	1	1.8			9	15.8	1	1.8	2	3.5	6	10.5
Miscellaneous selling	69	10.8	92	14.4	226	35.4	49	7.7	58	9.1	319	50.0
Miscellaneous buying	38	8.9	29	6.8	168	39.5	35	8.2	59	13.9	184	43.3
Total	406	7.1	617	10.8	1,193	20.8	311	5.4	314	5.5	1,805	31.5

TABLE 32.—*Grain marketing associations, estimated membership and amount of business, February, 1924*

Geographic division	Number associations	Per cent	Estimated membership [1]	Per cent	Estimated amount of business [2]	Per cent
West North Central	1,953	62.3	255,843	57.8	$359,074,674	60.8
East North Central	852	27.2	122,688	27.7	146,845,608	24.9
Mountain	135	4.3	16,605	3.8	22,572,675	3.8
West South Central	113	3.6	30,397	6.9	24,189,345	4.1
Pacific	65	2.1	14,105	3.2	34,945,820	5.9
Middle Atlantic	7	.2	1,351	.3	1,946,000	.3
South Atlantic	5	.2	1,525	.3	1,000,000	.2
New England	3	.1	204	[4].0	159,750	[4].0
East South Central	1	[4].0	65	[4].0	10,000	[4].0
United States	3,134	100.0	[3] 442,783	100.0	[3] 590,743,872	100.0

[1] The average number of members for the associations reporting membership in each geographic division multiplied by the total number of associations credited to the geographic division, based on 2,358 reports regarding membership.

[2] The average amount of business for the associations reporting business in each geographic division multiplied by the total number of associations credited to the geographic division, based on 1,848 reports regarding amount of business.

[3] The sum of the estimates for the several geographic divisions.

[4] Less than one-tenth of 1 per cent.

TABLE 33.—*Grain marketing associations reporting membership, by geographic divisions, February, 1924*

Geographic division	Number of associations reporting	Number of members		
		Number	Per cent	Average
West North Central	1,418	186,505	55.9	132
East North Central	684	98,392	29.5	144
West South Central	79	21,296	6.4	270
Mountain	111	13,640	4.1	123
Pacific	53	11,506	3.4	217
Middle Atlantic	5	967	.3	193
South Atlantic	3	915	.3	305
New England	4	274	.1	68
East South Central	1	65	[1].0	65
United States	2,358	333,560	100	141

[1] Less than one-tenth of 1 per cent.

TABLE 34.—*Grain marketing associations reporting membership, by leading States, February, 1924*

State and rank	Number of associations reporting	Number of members			
		Total	Per cent of 333,560 [1]	Cumulative per cent	Average number
1. Illinois	328	39,318	11.8	11.8	120
2. Minnesota	204	31,803	9.5	21.3	156
3. Iowa	232	31,295	9.4	30.7	135
4. Nebraska	247	30,177	9.0	39.7	122
5. Kansas	217	29,911	9.0	48.7	138
6. North Dakota	251	25,901	7.8	56.5	103
7. Ohio	155	24,136	7.2	63.7	156
8. South Dakota	148	19,274	5.8	69.5	130
9. Missouri	119	18,144	5.4	74.9	152
10. Oklahoma	[2] 67	[2] 17,227	5.2	80.1	[3] 130
11. Michigan	67	14,716	4.4	84.5	220
12. Indiana	91	12,887	3.9	88.4	142
All others	232	38,771	11.6	100.0	167
United States	2,358	[1] 333,560	100.0		141

[1] Total membership for the 2,358 associations reporting membership.
[2] Including Oklahoma Wheat Growers' Association with 8,627 members.
[3] Omitting Oklahoma Wheat Growers' Association with 8,627 members.

TABLE 35.—*Grain marketing associations reporting amount of business, by geographic divisions, 1923*

Geographic division	Number of associations reporting	Business reported, 1923		
		Amount	Per cent	Average
West North Central	1,115	$205,002,000	58.7	$183,858
East North Central	543	93,588,000	26.8	172,354
Pacific	43	23,118,000	6.6	537,628
West South Central	62	13,272,000	3.8	214,065
Mountain	73	12,206,000	3.5	167,205
Middle Atlantic	5	1,390,000	.4	278,000
South Atlantic	2	400,000	.1	200,000
New England	4	213,000	.1	53,250
East South Central	1	10,000	[1].0	10,000
United States	1,848	349,199,000	100.0	188,960

[1] Less than one-tenth of 1 per cent.

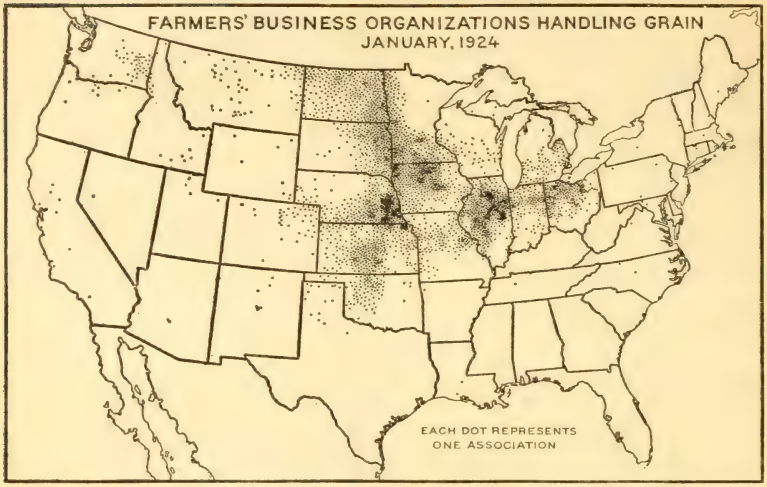

FIG. 23.—Grain-marketing associations are found in large numbers in the 12 North Central States, in Oklahoma, in a corner of Colorado, and in Washington. Illinois leads in number of associations and Iowa comes second. (See Table 8.)

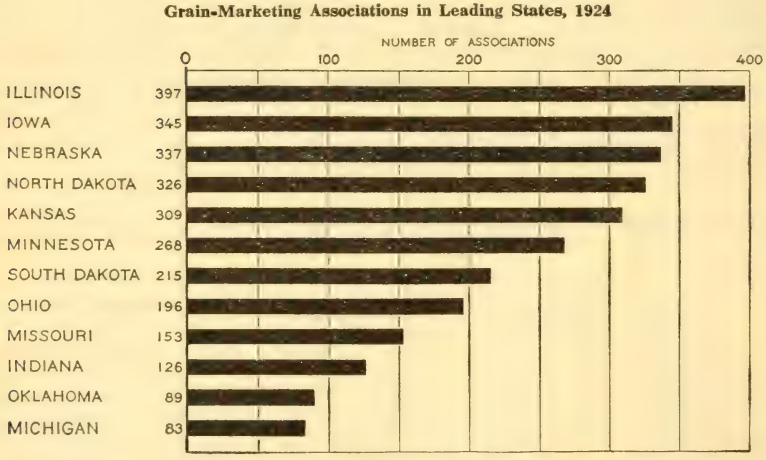

FIG. 24.—Illinois, Iowa, Nebraska, North Dakota, and Kansas, in the order named, lead in the number of organizations engaged in the marketing of grain. (See Table 10.)

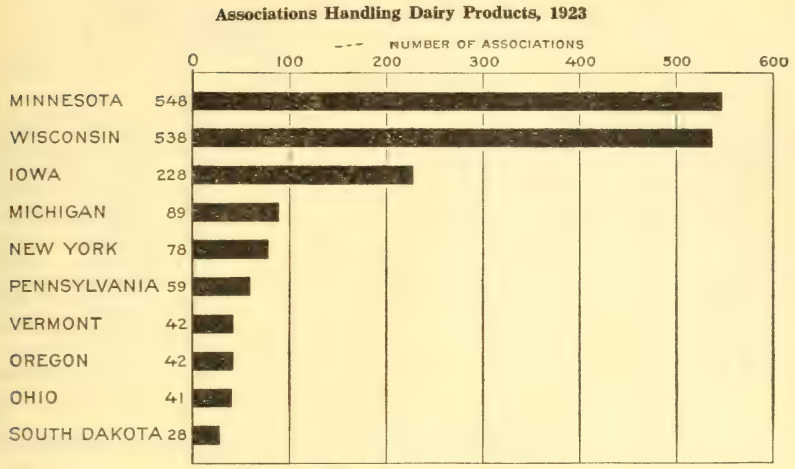

FIG. 25.—Nearly 70 per cent of all associations handling dairy products are in Minnesota, Wisconsin, and Iowa. (See Table 11.)

FIG. 26.—Over 40 per cent of all the farmer-controlled creameries from which reports were received in 1923 were in Minnesota, 17 per cent in Iowa, and 16.7 per cent in Wisconsin. (See Table 44.)

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TABLE 36.—*Grain marketing associations reporting amount of business, by leading States, 1923*

State and rank	Number of associations reporting	Business reported, 1923	
		Amount	Average per association
1. Washington	28	$7,920,000	$282,857
2. Missouri	90	22,648,000	251,644
3. Iowa	181	39,459,000	218,006
4. Kansas	160	32,160,000	201,000
5. Oklahoma	54	10,814,000	200,259
6. Illinois	269	52,445,000	194,963
7. Michigan	48	8,805,000	183,438
8. Nebraska	185	33,341,000	180,222
9. North Dakota	211	35,246,000	167,043
10. Ohio	127	20,403,000	160,654
11. Montana	41	6,226,000	151,854
12. South Dakota	112	16,743,000	149,491
13. Minnesota	176	25,405,000	144,347
14. Indiana	73	9,717,000	133,110
All others	93	27,867,000	
United States	1,848	349,199,000	188,960

TABLE 37.—*Grain marketing associations reporting both number of members and amount of business, by leading States, 1923*

State and rank	Number of associations reporting	Number of members	Business	
			Amount	Average per member
1. Montana	40	4,262	$11,671,000	$2,738
2. Illinois	264	29,005	51,199,000	1,765
3. North Dakota	209	22,088	34,949,000	1,582
4. Iowa	177	23,784	36,689,000	1,543
5. Washington	28	5,230	7,920,000	1,514
6. Kansas	158	22,082	31,397,000	1,422
7. Nebraska	187	23,664	33,544,000	1,418
8. Minnesota	175	23,020	25,305,000	1,099
9. South Dakota	114	15,778	17,108,000	1,084
10. Missouri	85	11,716	12,588,000	1,074
11. Ohio	130	21,117	21,200,000	1,004
12. Indiana	68	10,296	9,169,000	891
13. Michigan	50	10,436	9,130,000	875
14. Oklahoma	54	16,053	10,983,000	684
All others	88	23,238	19,674,000	
United States	1,827	261,769	332,526,000	1,270

TABLE 38.—*Grain marketing associations reporting amount of business, by geographic divisions, in both 1913 and 1923*

Geographic division	Number of associations reporting	Amount of business		
		1913	1923	Increase per cent
West North Central	176	$23,043,000	$31,423,000	36.4
East North Central	62	9,289,000	12,583,000	35.5
Pacific	17	3,132,000	2,962,000	[1] 5.4
All others	3	226,000	495,000	119.0
United States	258	35,690,000	47,463,000	33.0

[1] Decrease.

TABLE 39.—*Grain marketing associations reporting amount of business, by leading States, in both 1913 and 1923*

State and rank	Number of associations reporting	Amount of business		
		1913	1923	Increase per cent
1. North Dakota	25	$2,411,000	$3,669,000	52.2
2. Kansas	21	2,192,000	3,171,000	44.7
3. Nebraska	26	4,051,000	5,814,000	43.5
4. Minnesota	46	4,900,000	6,859,000	40.0
5. South Dakota	25	3,664,000	5,018,000	37.0
6. Illinois	48	7,972,000	10,727,000	34.6
7. Iowa	31	5,679,000	6,742,000	18.7
8. Washington	16	2,732,000	2,939,000	7.6

TABLE 40.—*Quantity of grain of the 1922 crop handled by 1,882 associations*

Grain	Bushels	Per cent
Wheat	134,064,000	42.0
Oats	63,520,000	19.9
Rye	12,908,000	4.0
Other grain	108,897,000	34.1
Total	319,389,000	100.0

TABLE 41.—*Quantity of grain of the 1922 crop handled by 1,882 associations, by leading States*

State and rank	Number of associations reporting	Number of bushels			
		Wheat	Other grains	Total	Average per association
1. Oregon	7	8,771,000	60,000	3,831,000	547,285
2. California	9	2,130,000	2,149,000	4,279,000	475,444
3. Montana	39	10,810,000	703,000	11,513,000	295,205
4. Washington	28	7,181,000	225,000	7,406,000	264,500
5. Illinois	276	11,075,000	53,923,000	64,998,000	235,500
6. Iowa	189	1,462,000	42,899,000	44,361,000	234,714
7. Missouri	89	11,149,000	3,471,000	14,620,000	164,270
8. North Dakota	224	24,252,000	12,067,000	36,319,000	162,138
9. Oklahoma	58	7,593,000	1,445,000	9,038,000	155,828
10. Minnesota	177	5,095,000	22,025,000	27,120,000	153,220
11. South Dakota	122	6,674,000	11,618,000	18,292,000	149,934
12. Nebraska	181	10,802,000	15,047,000	25,849,000	142,812
13. Kansas	173	21,233,000	3,415,000	24,648,000	142,474
14. Indiana	73	1,562,000	6,394,000	7,956,000	108,986
15. Ohio	127	3,979,000	5,590,000	9,569,000	75,346
All others	110	5,296,000	4,294,000	9,590,000	
United States	1,882	134,064,000	185,325,000	319,389,000	169,707

TABLE 42.—*State and regional grain marketing associations, June, 1924*

Association	Address	Date organized	Number of members, 1924	Bushels of grain, 1922 crop	Amount of business, 1922–23	Bushels of grain, 1923 crop
Arizona Grain Growers' Association	Phoenix, Ariz	June, 1922 [1]	280			
California Farm Bureau Exchange	San Francisco, Calif	June, 1922 [1]	830	3,086,474	$2,585,809	2,061,333
Colorado Wheat Growers' Association	Sterling, Colo	September, 1922 [1]	5,185	87,500	120,000	1,300,000
Idaho Wheat Growers' Association [2 3]	American Falls, Idaho	September, 1920 [1]	3,296	424,000		
Indiana Wheat Growers' Association	Indianapolis, Ind	September, 1924	4,500	0	0	0
Kansas Wheat Growers' Association [4]	Wichita, Kans	September, 1921 [1]		2,500,000	3,500,000	2,100,000
Farmers' Union Cooperative Wheat Marketing Association [4]	Kansas City, Kans	February, 1923	1,000	0	0	
Kansas Cooperative Wheat Marketing Association	Wichita, Kans	1924	2,500	0	0	0
Minnesota Wheat Growers' Cooperative Marketing Association	Thief River Falls, Minn	1923	7,852	40,000		513,002
Montana Wheat Growers' Association [2]	Lewistown, Mont	1921	10,869	6,048,000	5,624,125	4,390,579
Nebraska Wheat Growers' Association	Hastings, Nebr	April, 1922	2,425	400,000	440,000	550,000
North Dakota Wheat Growers' Association [2]	Grand Forks, N. Dak	May, 1922 [1]	14,545	3,141,464	3,000,000	2,100,000
Oklahoma Wheat Growers' Association [5]	Enid, Okla	September, 1921 [1]	11,552	3,122,373	3,500,000	5,775,000
Oregon Cooperative Grain Growers [2]	Portland, Oreg	July, 1921	3,200	2,375,000	3,000,000	3,500,000
South Dakota Wheat Growers' Association, Inc	Aberdeen, S. Dak	June, 1923	3,000	0	0	
Texas Wheat Growers' Association [5]	Amarillo, Tex	May, 1922	4,100	218,520	1,000,000	
Washington Wheat Growers' Association [2]	Spokane, Wash	1920	3,017	2,750,000	3,500,000	4,086,496
Northwest Wheat Growers Associated (selling agency for Washington, Oregon, Idaho, Montana, and North Dakota State associations. Supplanted Aug. 1, 1923, by American Wheat Growers Associated (Inc.)).	Portland, Oreg., and Minneapolis, Minn.	1921	[6 5]	16,000,000		
Southwest Wheat Growers Associated (selling agency for Oklahoma and Texas State associations).	Enid, Okla	1921	[6 2]	3,179,594	5,652,595	
American Wheat Growers Associated (absorbed business of Northwest Wheat Growers Associated Aug. 1, 1923. Selling agency for Washington, Idaho, Oregon, Montana, Nebraska, North Dakota, Colorado, Minnesota, and South Dakota State associations).	Minneapolis, Minn	December, 1922	[6 9]	0	0	

[1] Date incorporated.
[2] Grain sold through Portland and Minneapolis offices of Northwest Wheat Growers Associated.
[3] In hands of receiver.
[4] Merged into Kansas Cooperative Wheat Marketing Association, Wichita, Kans. (1924).
[5] Grain sold through the Southwest Wheat Growers Associated.
[6] State associations.

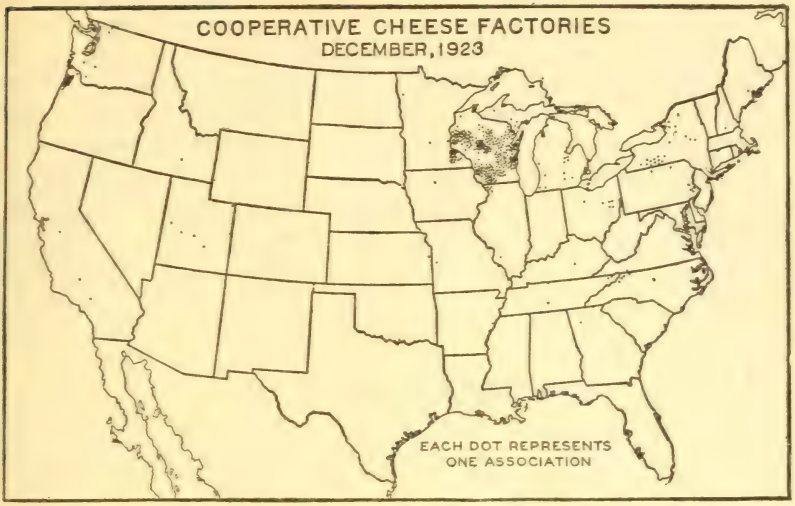

FIG 27.—More than 60 per cent of the farmer-controlled cheese factories in the United States are in Wisconsin. Oregon has the second largest number. There are a few cheese factories in New York, Michigan, and Ohio

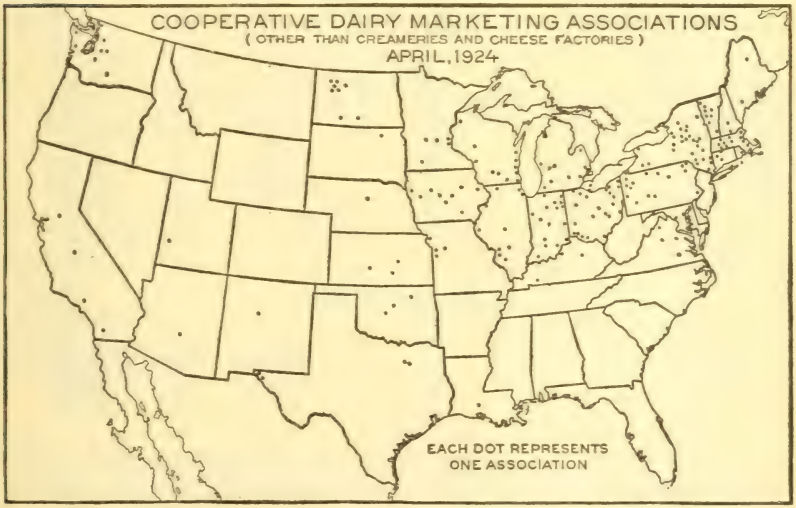

FIG. 28.—In nearly all the States there are producer-controlled associations engaged in the marketing of milk as fluid milk, cream, ice cream, condensed milk, or milk powder. The amount of business transacted by these associations varies from a few thousand dollars in the case of the smallest to over $80,000,000 in the case of the largest

TABLE 43.—*Terminal grain marketing associations, 1923*

Association	Date organized	Members, 1923	Bushels grain, 1922 crop	Amount of business, 1922–23	Bushels grain, 1923 crop
Equity Cooperative Exchange, St. Paul, Minn.[1]	1908[2]	[3] 10,000			[4] 1,447,600
Farmers' Union Jobbing Association, Kansas City, Mo.	May, 1914	1,225	3,429,780	$4,423,636	3,780,640
Equity Union Grain Co., Kansas City, Mo.	1916	40	4,500,000	5,000,000	5,000,000
Farmers' Elevator Commission Co., Minneapolis, Minn.	July, 1919	100	1,500,000	1,000,000	
Farmers' Terminal Elevator Co., Sioux City, Iowa.[1]	August, 1919				
National Grain Commission Co., Omaha, Nebr.	October, 1919[5]	[6] 9			272,000
United States Grain Growers (Inc.), Chicago, Ill.[7]	April, 1921	[8] 62,980	0	0	
United States Grain Growers Co., Minneapolis, Minn.	October, 1922	(9)			

[1] In hands of receiver.
[2] Incorporated Mar. 21, 1911.
[3] Estimated.
[4] Does not include grain handled on consignment.
[5] Reorganized January, 1923. Began business Aug. 1, 1923.
[6] Associations.
[7] Began operating December, 1923.
[8] April, 1924.
[9] Capital stock purchased by the Montana Wheat Growers' Association and the Minnesota Wheat Growers' Cooperative Marketing Association.

TABLE 44.—*Creameries, estimated membership, and amount of business, by geographic divisions*

Geographic division	Associations reporting		Estimated membership, 1923		Estimated amount of business, 1922	
	Number reporting	Per cent of total	Number[1]	Per cent	Amount[2]	Per cent
West North Central	778	61.1	122,146	60.5	$72,518,936	50.6
East North Central	299	23.5	48,139	23.8	39,474,578	27.5
Middle Atlantic	56	4.4	4,138	2.1	4,658,920	3.3
New England	52	4.1	4,742	2.4	5,868,876	4.1
Pacific	38	3.0	11,457	5.7	14,799,784	10.3
Mountain	21	1.6	6,102	3.0	3,204,348	2.2
East South Central	19	1.5	4,104	2.0	2,136,930	1.5
South Atlantic	8	.6	1,006	.5	543,000	.4
West South Central	2	.2	68	[3] .0	147,000	.1
United States	1,273	100.0	201,902	100.0	143,352,372	100.0
LEADING STATES						
Minnesota	510	40.1	67,371	33.4	$45,466,500	31.9
Iowa	216	17.0	31,492	15.6	21,163,464	14.8
Wisconsin	212	16.7	30,803	15.3	30,356,492	21.2
Michigan	65	5.1	15,294	7.6	7,069,530	5.0
Vermont	35	2.7	3,643	1.8	4,723,810	3.3

[1] The average number of members for the associations reporting membership in each State, multiplied by total number of associations credited to the State, based on 1,173 reports regarding membership.
[2] The average amount of business for the associations reporting amount of business in each State multiplied by the total number of associations credited to the State, based on 1,139 reports regarding amount of business.
[3] Less than one-tenth of 1 per cent.

TABLE 45.—*Creameries reporting membership and amount of business, by geographic divisions*

Geographic division	Membership			Amount of business		
	Associations reporting	Number of members 1923	Average number of members per association	Associations reporting	Amount of business 1922	Average per association
West North Central	716	112,420	157	701	$65,342,000	$93,213
East North Central	279	44,945	161	272	35,910,000	132,022
Middle Atlantic	52	3,843	74	46	3,827,000	83,196
New England	47	4,288	91	44	4,966,000	112,864
Pacific	33	6,950	302	32	12,738,000	398,100
Mountain	19	5,523	291	17	2,594,000	152,588
East South Central	17	3,673	216	17	1,912,000	112,471
South Atlantic	8	1,007	126	8	543,000	67,875
West South Central	2	68	34	2	147,000	73,500
United States	1,173	185,717	158	1,139	127,704,000	112,119

TABLE 46.—*Creameries reporting membership, by leading States, 1923*

State and rank	Number of associations reporting membership	Number of members	Average number of members per association
1. Minnesota	472	62,367	132
2. Iowa	199	29,026	146
3. Wisconsin	197	28,643	145
4. Michigan	62	14,599	235
5. Vermont	32	3,334	104
6. Pennsylvania	32	2,237	70
7. New York	20	1,606	80
8. South Dakota	20	7,993	400

TABLE 47.—*Creameries reporting amount of business, by leading States, 1922*

State and rank	Number of associations reporting	Amount of business	Average per association
1. Minnesota	460	$41,009,000	$89,150
2. Iowa	195	19,106,000	97,979
3. Wisconsin	193	27,636,000	143,192
4. Michigan	59	6,417,000	108,763
5. Pennsylvania	31	2,452,000	79,097
6. Vermont	30	4,049,000	134,967
7. South Dakota	20	1,565,000	78,250
8. New York	15	1,375,000	91,667

TABLE 48.—*Fruit and vegetable associations, by geographic divisions, 1923*

Geographic divisions	Total number of associations reporting	Estimated membership	Per cent
Pacific	322	71,382	39.0
South Atlantic	134	25,509	13.9
West North Central	153	19,987	10.9
East North Central	119	14,471	7.9
West South Central	180	14,178	7.8
Mountain	84	12,595	6.9
East South Central	89	11,672	6.4
Middle Atlantic	109	10,386	5.7
New England	42	2,750	1.5
United States	1,232	182,930	100.0

TABLE 49.—*Fruit and vegetable associations, by States, 1923*

State and rank	Total number of associations	Associations reporting number of members	Number of members	Average number of members	Estimated membership	Per cent	Cumulative per cent
1. California	246	163	35,385	217	53,382	29.2	29.2
2. Virginia	10	5	6,426	1,285	12,850	7.0	36.2
3. Oregon	26	14	5,951	425	11,050	6.0	42.2
4. New York	89	62	6,365	103	9,167	5.0	47.2
5. Missouri	29	16	4,684	293	8,497	4.6	51.8
6. Michigan	55	35	5,148	147	8,085	4.4	56.2
7. Minnesota	78	35	3,508	100	7,800	4.3	60.5
8. Idaho	20	7	2,444	349	6,980	3.8	64.3
9. Washington	50	28	3,901	139	6,950	3.8	68.1
10. Florida	82	54	4,524	84	6,888	3.8	71.9
11. Arkansas	90	37	2,709	73	6,570	3.6	75.5
12. Tennessee	42	14	2,097	150	6,300	3.4	78.9
13. Louisiana	24	5	861	172	4,128	2.3	81.2
14. Wisconsin	23	6	946	158	3,634	2.0	83.2
15. Alabama	25	13	1,851	142	3,550	1.9	85.1
16. Colorado	38	9	834	93	3,534	1.9	87.0
17. Texas	54	21	1,089	52	2,808	1.5	88.5
18. Georgia	8	3	977	326	2,608	1.4	89.9
19. Kentucky	6	4	948	237	1,422	.8	90.7
20. Massachusetts	7	2	396	198	1,386	.8	91.5
21. Ohio	16	10	863	86	1,376	.7	92.2
22. Maryland	4	3	1,003	334	1,336	.7	92.9
23. North Dakota	24	10	546	55	1,320	.7	93.6
24. Illinois	17	3	191	64	1,088	.6	94.2
25. Pennsylvania	13	10	761	76	988	.5	94.7
26. Nebraska	4	2	453	226	904	.5	95.2
27. Maine	32	5	139	28	896	.5	95.7
28. North Carolina	12	8	564	70	840	.5	96.2
29. Utah	10	4	312	78	780	.4	96.6
30. Iowa	5	2	270	135	675	.4	97.0
31. Oklahoma	12	4	222	56	672	.4	97.4
32. South Dakota	10	3	194	65	650	.4	97.8
33. South Carolina	9	6	430	72	648	.4	98.2
34. Montana	6	3	325	108	648	.4	98.6
35. Arizona	5	3	245	82	410	.2	98.8
36. Mississippi	16	2	50	25	400	.2	99.0
37. Connecticut	2			[2] 156	312	.2	99.2
38. Indiana	8	3	107	36	288	.2	99.4
39. New Jersey	7	3	98	33	231	.1	99.5
40. West Virginia	7	4	109	27	189	.1	99.6
41. Wyoming	3	2	110	55	165	.1	99.7
42. Vermont	1			[2] 156	156	.1	99.8
43. Delaware	2	1	75	75	150	.1	99.9
44. Kansas	3	3	140	47	141	.1	100.0
45. New Mexico	2	2	78	39	78	[3] .0	
United States	1,232	629	98,329	156	[1] 182,930	100.0	

[1] Total of estimates for all States.
[2] Average for United States.
[3] Less than one-tenth of 1 per cent.

TABLE 50.—*Quantity and value of fruits and vegetables, by products, handled cooperatively, 1922*

Commodity	Cars	Value	Commodity	Cars	Value
FRUITS			VEGETABLES—Continued		
Apples	16,099	$13,794,341	Watermelons	2,637	$287,525
Citrus fruits	43,620	69,202,327	Lettuce	1,821	1,048,920
Grapes	15,889	42,510,669	Onions	870	435,597
Strawberries	5,987	6,169,964	Asparagus	190	321,702
Peaches	6,025	9,346,380	Rhubarb	212	250,004
Pears	2,829	2,431,286	Cucumbers	518	347,807
Cherries	199	499,354	Celery	1,162	759,502
Plums and prunes (all)	3,195	12,453,720	Lima beans	1,262	3,800,000
Raspberries (all)	383	672,346	Green beans	237	113,796
Cranberries	1,685	3,906,510	Broccoli	173	119,030
Apricots	391	3,083,932	Peas	312	241,944
Loganberries	353	312,327	Spinach	103	31,281
Figs	190	1,130,000	Escarole	53	53,000
Blackberries	313	268,851	Romaine	11	11,000
Pineapples	100	85,000	Peppers	150	156,000
Currants	121	93,918	Squash	22	15,000
Gooseberries	1	2,230	Turnips	8	840
Olives and olive oil	111	579,260	Chicory	3	3,000
Quinces	25	13,020	Cantaloupes	503	209,879
Total	97,516	166,555,435	Garlic	5	14,000
Miscellaneous fruits	10,271	15,564,576	Eggplant	13	13,000
Total fruits	107,787	182,120,011	Radishes	2	2,000
VEGETABLES			Cauliflowers	2	800
Potatoes	19,943	$11,061,852	Sweet corn	2	1,000
Cabbage	1,216	314,193	Total	41,019	24,398,875
Sweet potatoes	5,149	1,792,204	Miscellaneous vegetables	18,925	5,104,488
Tomatoes	4,440	2,993,999	Total vegetables	59,944	29,503,363

	Cars	Value
Total fruits	107,787	$182,120,011
Total vegetables	59,944	29,503,363
Mixed fruits and vegetables	9,475	9,565,603
Total fruits and vegetables	177,206	221,188,977

TABLE 51.—*Federations and associations selling citrus fruits, 1922*

Name of association	Number of locals	Total number of organizations [1]	Cars handled	Estimated f. o. b. value
California Fruit Growers' Exchange	195	[2] 216	27,138	$48,647,800
Mutual Orange Distributors (California)	21	22	5,000	7,430,000
Florida Citrus Exchange	79	[3] 92	10,572	12,062,648
Gulf Coast Citrus Exchange (Alabama)	12	13	325	443,000
Florida East Coast Growers' Association	8	9	100	80,000
Federations total	315	352	43,135	68,663,448
Four independent associations	4	4	485	538,879
Grand total	319	356	43,620	69,202,327

[1] Including overhead organization in each case.
[2] Including 12 districts or subexchanges.
[3] Including 20 districts or subexchanges.

TABLE 52.—*Fruit and vegetable associations reporting amount of business in 1913 compared with 1921 and 1922*

State and geographic division	1913 and 1921 business				1913 and 1922 business			
	Number of associations reporting	1913	1921	Per cent increase or decrease	Number of associations reporting	1913	1922	Per cent increase or decrease
Maine	2	$45,000	$50,000	11.1				
New Hampshire								
Vermont								
Massachusetts	1	1,186,000	1,300,000	9.6	1	$1,186,000	$1,905,000	60.6
Rhode Island								
Connecticut								
New England	3	1,231,000	1,350,000	9.7	1	1,186,000	1,905,000	60.6
New York	5	530,000	591,000	11.5	4	525,000	698,000	33.0
New Jersey	1	1,053,000	1,759,000	67.0	1	1,053,000	1,428,000	35.6
Pennsylvania								
Middle Atlantic	6	1,583,000	2,350,000	48.4	5	1,578,000	2,126,000	34.7
Ohio	2	406,000	1,250,000	207.9	1	95,000	43,000	−54.7
Indiana	1	17,000	40,000	135.3	1	5,000	30,000	500.0
Illinois	1	25,000	13,000	−48.0	1	25,000	38,000	52.0
Michigan	4	281,000	1,260,000	348.4	6	356,000	2,732,000	667.4
Wisconsin	5	323,000	1,676,000	418.9	4	240,000	1,384,000	476.7
East North Central	13	1,052,000	4,239,000	302.9	13	721,000	4,227,000	486.3
Minnesota	2	59,000	68,000	15.3	3	129,000	115,000	−10.9
Iowa	3	124,000	220,000	77.4	1	66,000	125,000	89.4
Missouri	12	917,000	1,383,000	50.8	9	719,000	2,908,000	304.4
North Dakota								
South Dakota								
Nebraska								
Kansas	1	51,000	3,000	−94.1	1	51,000	10,000	−80.4
West North Central	18	1,151,000	1,674,000	45.4	14	965,000	3,158,000	227.3
Delaware								
Maryland								
Virginia	1	4,500,000	9,157,000	103.5	1	4,500,000	9,721,000	116.0
West Virginia								
North Carolina	1	4,000	400,000	9,900.0	1	4,000	450,000	1,115.0
South Carolina								
Georgia								
Florida	11	976,000	3,521,000	260.8	10	812,000	3,482,000	328.8
South Atlantic	13	5,480,000	13,078,000	138.6	12	5,316,000	13,653,000	156.8
Kentucky	1	225,000	600,000	166.7	1	117,000	300,000	156.4
Tennessee	3	30,000	31,000	3.3	1	24,000	11,000	−54.2
Alabama	1	15,000	75,000	400.0				
Mississippi								
East South Central	5	270,000	706,000	161.5	2	141,000	311,000	120.6
Arkansas	3	52,000	557,000	971.2	4	64,000	248,000	287.5
Louisiana	4	118,000	327,000	177.1				
Oklahoma								
Texas	3	51,000	59,000	15.7				
West South Central	10	221,000	943,000	326.7	4	64,000	248,000	287.5
Montana	1	35,000	125,000	257.1	1	35,000	65,000	85.7
Idaho					2	41,000	148,000	261.0
Wyoming								
Colorado	4	723,000	1,573,000	117.6	2	649,000	909,000	40.1
New Mexico								
Arizona	1	40,000	250,000	525.0	1	40,000	75,000	87.5
Utah	1	30,000	60,000	100.0	1	30,000	70,000	133.3
Nevada								
Mountain	7	828,000	2,008,000	142.5	7	795,000	1,267,000	59.4
Washington	4	1,473,000	3,212,000	118.1	2	1,015,000	1,000,000	−1.5
Oregon	4	371,000	471,000	27.0	3	362,000	540,000	49.2
California	12	6,689,000	38,149,000	470.3	10	6,118,000	39,539,000	546.3
Pacific	20	8,533,000	41,832,000	390.2	15	7,495,000	41,079,000	448.1
United States	95	20,349,000	68,180,000	235.1	73	18,261,000	67,974,000	272.2

TABLE 53.—*Livestock marketing associations reporting amount of business, by leading States, 1923*

State and rank	Number of associations reporting	Number reporting amount of business, 1922	Amount of business, 1922	Average amount of business per association
			Thousands	*Thousands*
1. Iowa	334	98	$14,931	$152
2. Minnesota	300	117	10,249	88
3. Illinois	154	34	3,756	110
4. Wisconsin	144	43	4,855	113
5. Missouri	107	11	705	64
6. Indiana	95	12	1,030	86
7. South Dakota	93	25	1,251	50
8. Michigan	82	23	1,998	87
9. Ohio	74	16	3,538	221
All others	215	32	3,938	123
Total	1,598	411	46,251	113

TABLE 54.—*Terminal livestock selling agencies, by cities, 1924*

Market	Number of agencies	Number of cars handled 1923	Number of animals 1923	Total sales 1923
Chicago	2	22,190	1,473,886	$31,441,346
East St. Louis	2	24,205	1,891,969	30,930,854
South St. Paul	3	23,988	[7] 1,616,346	29,168,446
Indianapolis	1	12,822	909,032	15,748,151
St. Joseph, Mo	1	12,529	849,666	15,410,814
Kansas City	[1] 3	13,241	[7] 266,438	16,232,835
Omaha	1	10,177	624,333	13,251,897
Buffalo	1	5,078	562,511	11,027,480
Sioux City	1	6,015	365,167	7,616,640
Detroit	1	4,654	376,356	7,000,000
Fort Worth	1	4,082	181,228	4,046,231
Cleveland	[2] 1	2,650	252,476	3,842,718
Peoria	1	2,116	144,250	2,524,786
Milwaukee	1	2,264	155,529	2,131,187
Denver	1	1,537	115,328	1,686,919
Pittsburgh	[3] 1	675	68,111	1,024,962
Sioux Falls	[4] 1	520	35,405	591,633
Evansville, Ind	[5] 1	443	32,275	351,089
Oklahoma City	[6] 1	406	19,206	266,988
Lexington, Ky	[8] 1			
Total	26	149,592	9,939,512	194,294,967

[1] One began operating Mar. 5, 1923.
[2] Began operating May 15, 1923.
[3] Began operating Oct. 8, 1923.
[4] Began operating May 3, 1923.
[5] Began operating Sept. 1, 1923.
[6] Began operating July 2, 1923.
[7] Only two reporting.
[8] Began operating Feb. 19, 1924.

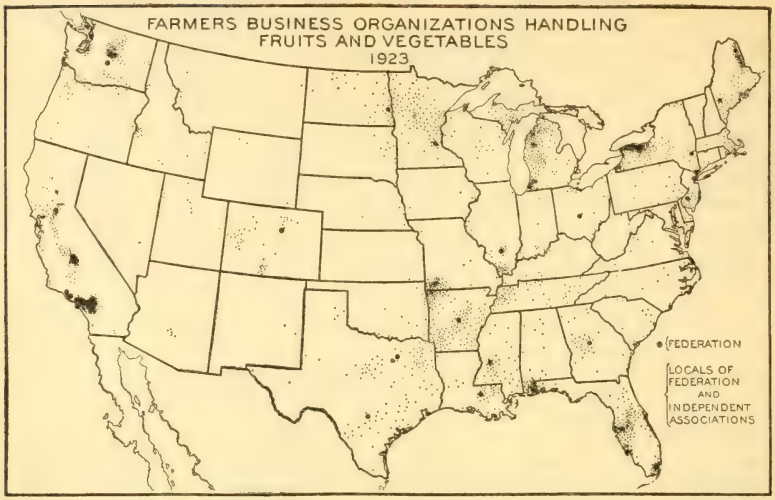

FIG. 29.—The marketing of fruits and vegetables is carried on by independent local associations and by federations of affiliated local associations. California leads in the number of associations. (See Table 8.)

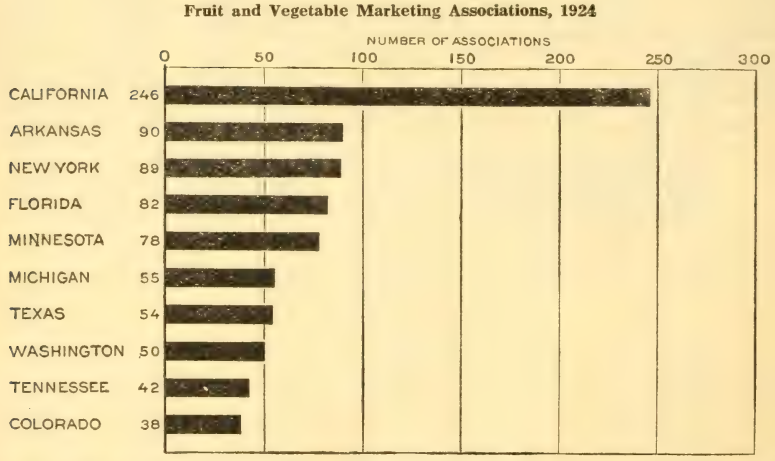

FIG. 30.—There are more than twice as many associations handling fruits and vegetables in California as in any other State. Reports from Arkansas, New York, and Florida indicate about the same number of organizations in each State. (See Table 12.)

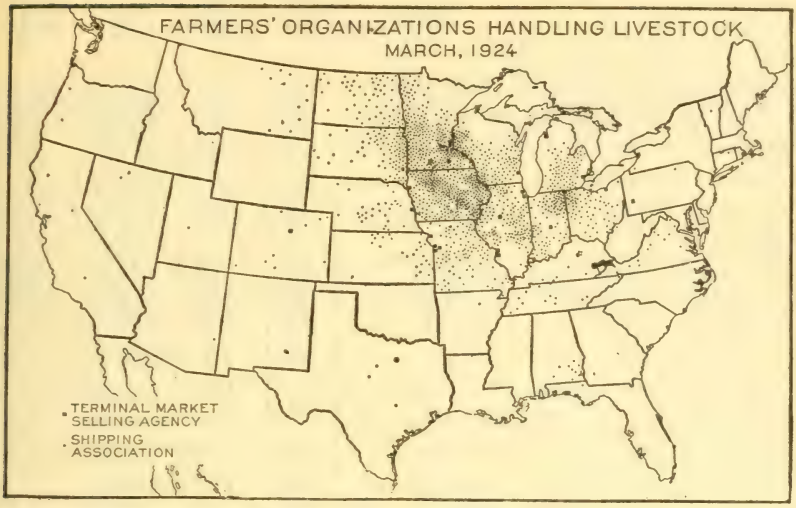

FIG. 31.—Geographic distribution of 1,598 livestock-shipping associations and 26 cooperative selling agencies located in 20 terminal livestock markets. Iowa and Minnesota lead in the number of active livestock-shipping associations. (See Tables 8 and 55.)

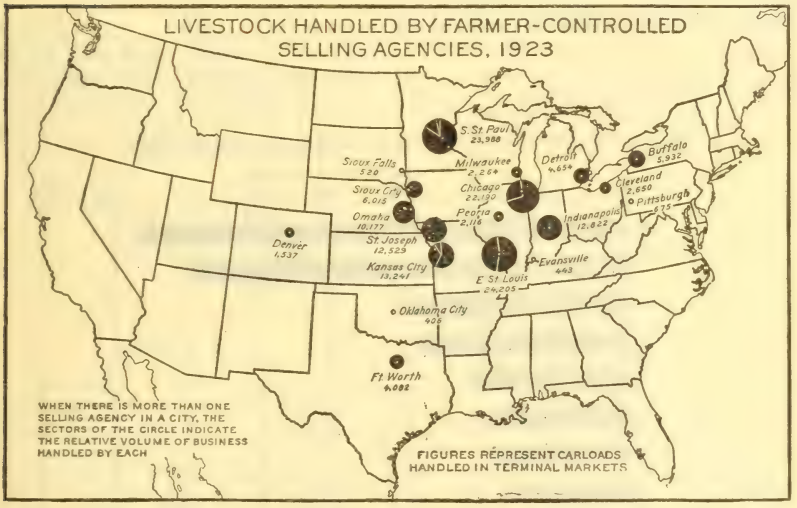
LIVESTOCK HANDLED BY FARMER-CONTROLLED SELLING AGENCIES, 1923
S. St. Paul 23,988
Sioux Falls 520
Milwaukee 2,264
Detroit 4,654
Buffalo 5,932
Sioux City 6,015
Chicago 22,190
Cleveland 2,650
Pittsburgh 573
Omaha 10,177
Peoria 2,114
Indianapolis 12,822
Denver 1,537
St. Joseph 12,529
Kansas City 13,241
E. St. Louis 24,205
Evansville 443
Oklahoma City 406
Ft. Worth 4,082
WHEN THERE IS MORE THAN ONE SELLING AGENCY IN A CITY, THE SECTORS OF THE CIRCLE INDICATE THE RELATIVE VOLUME OF BUSINESS HANDLED BY EACH
FIGURES REPRESENT CARLOADS HANDLED IN TERMINAL MARKETS

FIG. 32.--Twenty-five producer-controlled livestock-selling agencies operating in 19 terminal markets handled 149,592 cars of livestock in 1923. (See Table 55.) The white dot in each circle indicates location of terminal market

TABLE 55.—*Terminal livestock selling agencies, by associations, 1924*

Association	Location	Began operating	Cars handled, 1923	Total sales, 1923	Patronage dividends, 1923
Farmers Union Live Stock Commission	Omaha, Nebr	1917	10,177	$13,251,897	$111,394
Farmers Union Live Stock Commission	St. Joseph, Mo	1917	12,529	15,410,814	125,963
Farmers Union Live Stock Commission	Sioux City, Iowa	1918	6,015	7,616,640	51,265
Farmers Union Live Stock Commission	Kansas City, Mo	1919	7,688	8,979,258	28,861
Farmers Union Live Stock Commission, (Inc.).	Denver, Colo	1919	1,537	1,686,919	0
Central Cooperative Commission Association.	South St. Paul, Minn.	1921	20,339	24,723,051	72,753
Farmers Live Stock Commission Co	East St. Louis, Ill	1921	13,104	16,674,153	152,323
Producers Live Stock Commission Association.	do	1922	11,101	14,256,701	83,673
Michigan Live Stock Exchange	Detroit, Mich	1922	4,654	7,000,000	[1] 7,000
Farmers Union Live Stock Commission	Chicago, Ill	1922	6,335	8,725,123	30,292
Farmers Union Live Stock Commission	St. Paul, Minn	1922	2,909	3,519,077	15,982
Producers Commission Association	Indianapolis, Ind	1922	12,822	15,748,151	[2] 32,000
Chicago Producers Commission Association.	Chicago, Ill	1922	15,855	22,716,223	69,084
Peoria Producers Commission Association.	Peoria, Ill	1922	2,116	2,524,786	6,000
Cattle Raisers and Producers Commission Co.	Fort Worth, Tex	1922	4,082	4,046,231	0
Producers Cooperative Commission Association, (Inc.).	East Buffalo, N. Y.	1922	5,078	11,027,480	24,246
Equity Cooperative Live Stock Sales Association, (Inc.).	Milwaukee, Wis	1922	2,264	2,131,187	10,605
Producers Commission Association	Kansas City, Mo	1923	4,462	5,862,131	0
Peoples Cooperative Sales Agency, (Inc.).	South St. Paul, Minn.	1923	740	926,318	795
Producers Commission Association	Sioux Falls, S. Dak.	1923	520	591,633	0
Producers Cooperative Commission Association.	Cleveland, Ohio	1923	2,650	3,842,718	0
United Live Stock Shippers Association	Kansas City, Mo	1923	1,091	1,391,446	0
Producers Commission Association	Oklahoma City, Okla.	1923	406	266,988	0
Evansville Producers Commission Association.	Evansville, Ind	1923	443	351,080	0
Producers Cooperative Commission Association.	Pittsburgh, Pa	1923	675	1,024,962	0
Farmers Union Cooperative Stockyards Co.	Lexington, Ky	1924	0	0	0
Total			149,592	194,294,967	822,236

[1] Year ending Apr. 30, 1923. [2] Estimated.

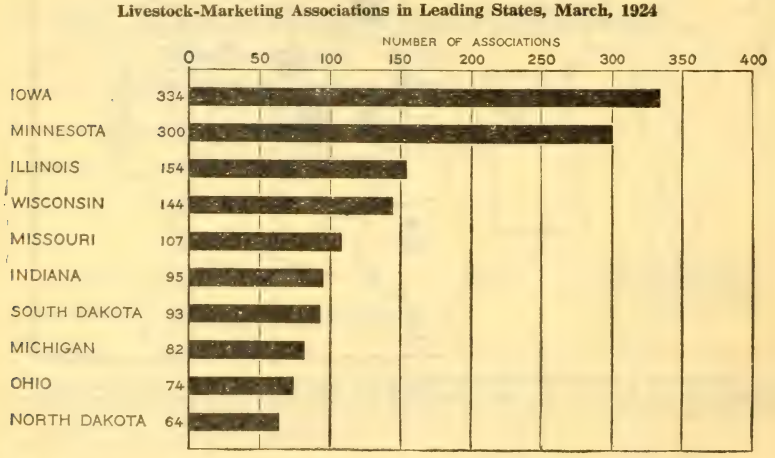

FIG. 33.—There are few livestock-shipping associations outside of the 12 North Central States. Nearly one-half of all associations reporting are in Iowa, Minnesota, and Illinois. (See Table 13.)

TABLE 56.—*State and regional cotton marketing associations, June, 1924*

[Compiled from data obtained from associations]

Association	Year formed	Members, 1924	Bales handled			Estimated value 1922–23 cotton crop handled
			1921–22 crop	1922–23 crop	1923–24 crop	
Alabama Farm Bureau Cotton Association, Montgomery, Ala	1922	21,853	0	57,407	65,314	$8,200,000
Arizona Pimacotton Growers', Phoenix, Ariz	1921	1,285	10,700	10,249	7,950	1,800,000
Arkansas Cotton Growers' Cooperative Association, Little Rock, Ark	1922	12,077	0	68,548	37,812	8,600,000
Arkansas Farmers Union Cotton Growers' Association, Little Rock, Ark	1921	4,000	----------	----------	3,340	500,000
Georgia Cotton Growers' Cooperative Association, Atlanta, Ga	1922	38,500	0	53,942	70,812	7,500,000
Louisiana Farm Bureau Cotton Growers Cooperative Association, Shreveport, La	1923	5,501	0	0	29,885	0
Staple Cotton Cooperative Association, Greenwood, Miss	1921	2,588	156,357	168,019	107,435	24,100,000
Mississippi Farm Bureau Cotton Association, Jackson, Miss	1923	19,434	0	0	33,758	0
Missouri Cotton Growers' Cooperative Association, New Madrid, Mo	1923	574	0	0	3,674	0
North Carolina Cotton Growers' Cooperative Association, Raleigh, N. C	1922	35,000	0	135,912	130,853	18,000,000
Oklahoma Cotton Growers' Association, Oklahoma City, Okla	1921	53,233	92,200	65,868	118,694	8,600,000
South Carolina Cotton Growers' Cooperative Association, Columbia, S. C	1922	13,842	0	121,848	121,123	16,000,000
Tennessee Cotton Growers' Association, Memphis, Tenn	1923	6,600	0	0	15,144	0
Texas Farm Bureau Cotton Association, Dallas, Tex	1921	37,328	93,812	77,706	182,321	11,300,000
Total	-------	251,815	353,069	759,499	928,115	104,600,000

TABLE 57.—*Rice marketing associations, April, 1924*

Association	Year organized	Number of members, 1924 [1]	Rice handled, 1922–23	Amount of sales, 1922–23
			Pounds	
American Rice Growers' Association, Lake Charles, La	1921	1,300	232,763,518	$4,764,830
Rice Growers' Association of California, Sacramento, Calif	1921	[2] 600	180,000,000	4,219,582
Arkansas Rice Growers' Cooperative Association, Stuttgart, Ark	1921	1,075	158,760,000	3,340,000
Louisiana Farm Bureau Rice Growers' Cooperative Association, Crowley, La	1922	1,179	48,394,746	1,123,000
Total	-------	4,154	619,918,264	13,447,412

[1] April, 1924. [2] Estimated.

TABLE 58.—*Tobacco marketing associations, June, 1924*

[Compiled from data obtained from associations]

Association	Year organized	Number of members, 1924 [1]	Tobacco handled, 1922–23	Amount of business, 1922–23	Tobacco handled, 1923–24
			Pounds		*Pounds*
Burley Tobacco Growers Cooperative Association, Lexington, Ky	1921	102,300	196,978,673	$41,000,000	244,500,000
Dark Tobacco Growers Cooperative Association, Hopkinsville, Ky	1922	[2] 70,200	175,000,000	25,700,000	173,571,342
Tobacco Growers Cooperative Association, Raleigh, N. C	1922	[2] 95,000	163,000,000	40,000,000	180,000,000
Northern Wisconsin Cooperative Tobacco Pool (Inc.), Madison, Wis	1922	7,635	30,630,692	9,000,000	25,000,000
Connecticut Valley Tobacco Association, Hartford, Conn	1922	3,604	27,000,000	10,000 000	24,142,145
Maryland Tobacco Growers' Association, Baltimore, Md	1920	4,862	9,500,000	2,160,000	14,700,675
Miami Valley Tobacco Growers' Association, Dayton, Ohio	1923	4,901	0	0	25,000,000
Total	-------	288,502	602,109,365	127,860,000	686,914,162

[1] April, 1924. [2] Estimated.

TABLE 59.—*Growers' associations handling wool, 1922 and 1923*

Name	Address	Year formed	Number of members, 1923	Pounds of wool		Amount of business	
				1922	1923	1922	1923
Illinois Agricultural Association (Wool Pool).	Chicago, Ill.	1919	766	147,000	198,000	$58,800	$81,180
Indiana Farm Bureau Federation (Wool Pool).	Indianapolis, Ind.	1921	2,000	240,000	398,000	90,240	168,433
Iowa Fleece Wool Growers' Association.	Bloomfield, Iowa.	1919	12,125	825,000	800,000	128,000	311,250
Kansas Sheep & Wool Growers' Cooperative Association.	Manhattan, Kans.	1921	1,180	55,000	72,567	24,700	27,700
Maine Sheep & Wool Growers' Association.	Augusta, Me.	1920	576	86,000	59,961	27,337	29,980
Michigan Wool Growers' Cooperative Marketing Association. [1]	Lansing, Mich.	1924	----------	330,000	420,000	145,000	190,000
New York State Sheep Growers' Association (Inc.).	Syracuse, N. Y.	1919	37 assns.	532,821	475,000	235,000	216,000
North Dakota Federation of Wool Growers' Association.	Fargo, N. Dak.	1920	700	160,000	415,000	75,000	180,000
Ohio Wool Growers' Cooperative Association.	Columbus, Ohio.	1918	----------	2,750,000	3,743,962	1,210,000	1,933,207
Pacific Cooperative Wool Growers' Association.	Portland, Oreg.	1921	2,600	1,000,000	2,000,000	420,000	900,000
South Dakota Sheep & Wool Growers' Association.	Brookings, S. Dak.	1920	[2] 996	520,000	1,520,000	150,000	750,000
Tennessee Wool Sales (conducted annually under direction of specialists of State College of Agriculture), 32 sales 1923.	----------	1919	[3] 1,586	135,877	248,308	51,475	118,932
Southwestern Farm Bureau Wool & Mohair Association.	Houston, Tex.	1921	600	295,007	225,000	146,114	95,000
Uintah Wool Marketing Co.	Vernal, Utah.	1917	25	680,000	----------	200,000	250,000
Virginia Cooperative Sheep & Wool Growers' Association.	Richmond, Va.	1921	1,200	87,316	210,000	40,000	107,000
Campbell County Wool Growers' Association.	Gillette, Wyo.	1921	62	280,000	325,000	99,400	146,250
Northern California Wool Warehouse Co. [4]	Red Bluff, Calif.	1921	28	589,387	1,063,038	----------	----------
National Wool Warehouse & Storage Co. [5]	Chicago, Ill.	1909	600	4,862,666	14,108,192	2,400,000	6,719,266
Total	----------	----------	----------	13,576,074	26,282,028	5,501,066	12,224,198

[1] Wool clips of 1922 and 1923 handled through Michigan State Farm Bureau.
[2] 535 shippers, 1923.
[3] Thirty-two sales for 1,586 farmers in 34 counties in 1923.
[4] Selling agency for wool growers in California.
[5] Selling agency for wool handled by the Illinois Agricultura. Association, Iowa Fleece Wool Growers' Association, Kansas Sheep & Wool Growers' Cooperation Association, South Dakota Sheep & Wool Growers' Association, Montana Wool Growers' Association, Montana Wool Cooperative Marketing Association, Wyoming Wool Growers' Association, and Idaho Wool Marketing Committee.

TABLE 60.—*Wool sold by Tennessee county wool pools, 1919–1923*

[Compiled from data obtained from Tennessee College of Agriculture]

Year	Number of counties	Wool sold	
		Pounds	Value
1919	8	31,337	$16,194
1920	15	92,750	33,557
1921	12	123,031	22,747
1922	16	135,877	51,475
1923	34	248,308	118,932

TABLE 61.—*Agricultural consumer cooperative associations, by membership groups, 1920*

[Source of data, Bureau of Labor Statistics, Bulletin 313]

Number of members	Number of associations	Per cent of total associations	Cumulative per cent
Under 100	93	34.4	34.4
100 and under 200	116	43.0	77.4
200 and under 300	34	12.6	90.0
300 and under 400	12	4.4	94.4
400 and under 500	5	1.9	96.3
500 and under 1,000	6	2.2	98.5
1,000 and under 2,000	2	.7	99.2
2,000 and under 5,000	1	.4	99.6
5,000 and over	1	.4	100.0
Total	270	100.0	

TABLE 62.—*Agricultural consumer cooperative associations, by length of time of operation, 1920*

[Source of data, Bureau of Labor Statistics, Bulletin 313]

Length of time in operation	Number of associations	Per cent of total	Length of time in operation	Number of associations	Per cent of total
1 month or more	278	100.0	4 years or more	151	54.3
1 year or more	244	87.8	5 years or more	124	44.6
2 years or more	211	75.9	10 years or more	24	8.6
3 years or more	177	63.7	25 years or more	5	1.8

TABLE 63.—*Publications issued by farmers' business associations, June, 1924*

Commodity associations	Number of periodicals	Commodity associations	Number of periodicals
Dairy products	20	Nuts	3
Fruit	13	Beans	2
Cotton	9	Peanuts	2
Grain	7	Rice	1
Poultry products	6	Wool	1
Potatoes	6	Miscellaneous	4
Tobacco	4		
Livestock	4	Total	82

TABLE 64.—*Associations which ceased to operate, by geographic divisions, 1900–1923*

Geographic division	Number of associations reporting	Per cent	Geographic division	Number of associations reporting	Per cent
West North Central	258	33.5			
East North Central	158	20.5	Middle Atlantic	40	5.2
Mountain	79	10.2	South Atlantic	40	5.2
Pacific	59	7.7	East South Central	36	4.7
West South Central	57	7.4			
New England	43	5.6	United States	770	100.0

TABLE 65.—*Associations which ceased to operate, by leading States, 1900–1923*

State	Number of associations	Per cent of 770 [1]	State	Number of associations	Per cent of 770 [1]
Minnesota	87	11.3	California	30	3.9
Wisconsin	63	8.2	Illinois	28	3.6
North Dakota	45	5.8	Maine	26	3.4
Iowa	36	4.7	Michigan	26	3.4
Kansas	32	4.2	All others	335	43.5
Montana	31	4.0			
Nebraska	31	4.0	Total	770	100.0

[1] Number reporting.

TABLE 66.—*Associations which ceased to operate, by kinds, 1900–1923*

Type of association	Number of associations	Per cent	Cumulative per cent
Selling:			
Grain	171	22.2	22.2
Dairy products	203	26.4	48.6
Livestock	45	5.8	54.4
Fruits and vegetables	116	15.1	69.5
Wool and mohair	8	1.0	70.5
Cotton and cotton products	19	2.5	73.0
Nuts	0	.0	73.0
Poultry and poultry products	5	.7	73.7
Forage crops	4	.5	74.2
Tobacco	0	.0	74.2
Miscellaneous selling	67	8.7	82.9
Buying:			
Merchandise (farmers' stores)	78	10.1	93.0
Miscellaneous buying	54	7.0	100.0
Total	770	100.0	

TABLE 67.—*Number of years active for associations which ceased to operate, 1900–1923*

Years in business	Number of associations	Per cent reporting	Cumulative per cent
Less than 1 year	73	7.9	7.9
1 to 2 years	126	13.6	21.5
2 to 3 years	145	15.6	37.1
3 to 4 years	116	12.5	49.6
4 to 5 years	93	10.0	59.6
5 to 6 years	81	8.7	68.3
6 to 7 years	41	4.4	72.7
7 to 8 years	38	4.1	76.8
8 to 9 years	30	3.2	80.0
9 to 10 years	21	2.3	82.3
10 to 11 years	37	4.0	86.3
11 to 14 years	52	5.6	91.9
15 to 19 years	35	3.8	95.7
20 to 24 years	24	2.6	98.3
25 to 29 years	8	.9	99.2
30 years and over	7	.8	100.0
Total	927	100.0	

TABLE 68.—*Associations which ceased to operate, by amount of business for last year active, 1900–1923*

Amount of busines	Number of associations	Per cent reporting	Cumulative per cent
Less than $25,000	292	48.0	48.0
$25,000 to $49,000	103	17.0	65.0
$50,000 to $99,000	87	14.3	79.3
$100,000 to $199,000	74	12.2	91.5
$200,000 to $299,000	31	5.1	96.6
$300,000 to $399,000	6	1.0	97.6
$400,000 to $499,000	2	.3	97.9
$500,000 and over	13	2.1	100.0
Total	608	100.0	

TABLE 69.—*Associations which ceased to operate, by years, 1900–1923*

Year	Number	Year	Number	Year	Number	Year	Number
1900	2	1907	2	1914	59	1921	153
1901		1908	7	1915	71	1922	132
1902	3	1909	7	1916	63	1923	72
1903	1	1910	15	1917	39		
1904		1911	17	1918	63	Total	970
1905		1912	31	1919	65		
1906	2	1913	56	1920	110		

TABLE 70.—*Number of associations reporting reasons for ceasing to operate, 1900–1923*

Reason given	Number of times	Reason given	Number of times
Inefficient management	558	Inadequate accounting system	114
Lack of interest	556	Lack of proper audit	103
Insufficient business	326	Dishonest management	100
Insufficient working capital	282	Capital stock falling into hands of too few	32
Insufficient membership	222	Property damaged by fire	12
Too liberal credit	187		

TABLE 71.—*California Fruit Growers Exchange, Los Angeles, Calif., 1913–1923*

Year	Cars shipped	Per cent of total shipments from State	F. o. b. value	Boxes shipped		
				Oranges and grapefruit	Lemons	Total
1913	12,443	61.5	$13,500,000			4,940,068
1914	28,186	61.9	19,246,757			11,264,185
1915	29,805	62.5	19,537,850	9,648,283	2,241,553	11,889,836
1916	29,823	67.0	27,703,000	9,694,288	2,407,232	12,101,520
1917	36,218	69.0	33,611,000	12,835,804	2,656,536	15,492,340
1918	19,248	76.0	36,422,200	6,452,896	2,191,281	8,644,177
1919	33,174	72.3	55,000,000	11,126,985	3,728,110	14,855,095
1920	34,461	73.7	59,221,329	12,371,230	3,452,534	15,823,764
1921[1]	43,592	72.5	61,080,003	15,390,105	4,175,239	19,565,344
1922	[2] 27,138	68.7	48,647,800	8,121,080	3,496,223	11,617,303
1923	45,258	75.8	55,223,450	14,645,070	3,212,347	17,857,417

[1] Previous to 1921 the fiscal year ended Aug. 31. Beginning with 1921 date was changed to Oct. 31.
[2] Basis of 400 boxes to a car.

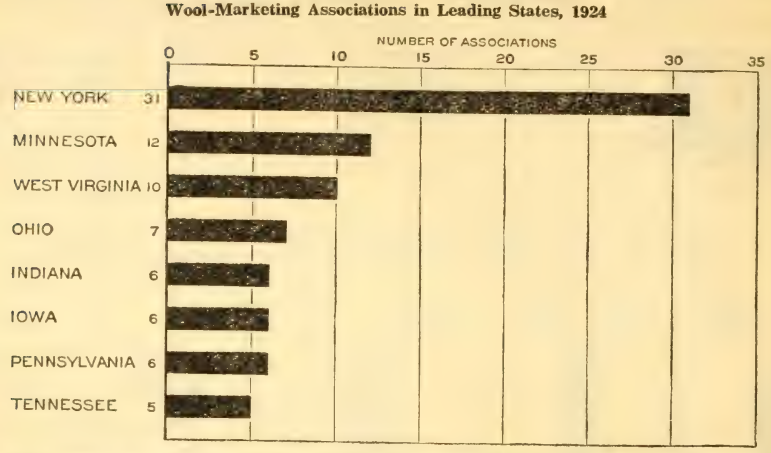

FIG. 34.—Although more than twice as many reports were received from wool-marketing associations in New York State as from any other State, the quantity of wool handled is less than that reported by single associations in several of the other States. (See Table 15.)

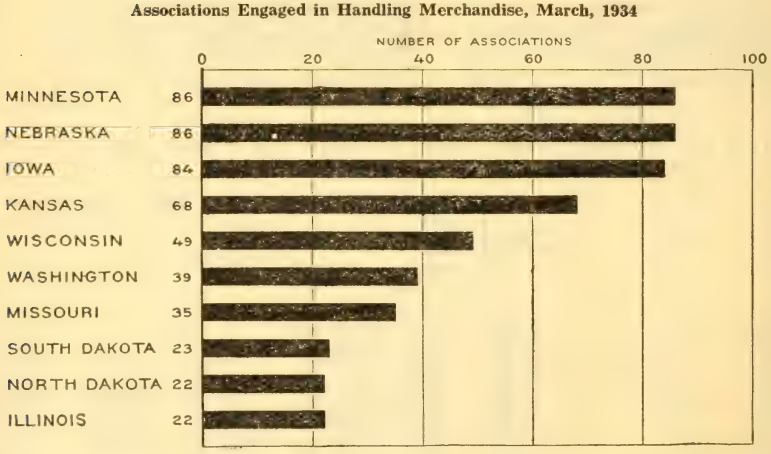

FIG. 35.—A total of 717 associations reported as engaged in handling commodities at retail. Most of these associations were operating cooperative stores and handling general merchandise, a few were buying only special lines of goods, as fertilizers, dairy feeds, etc. An equal number of reports were received from Minnesota and Nebraska. (See Table 17.)

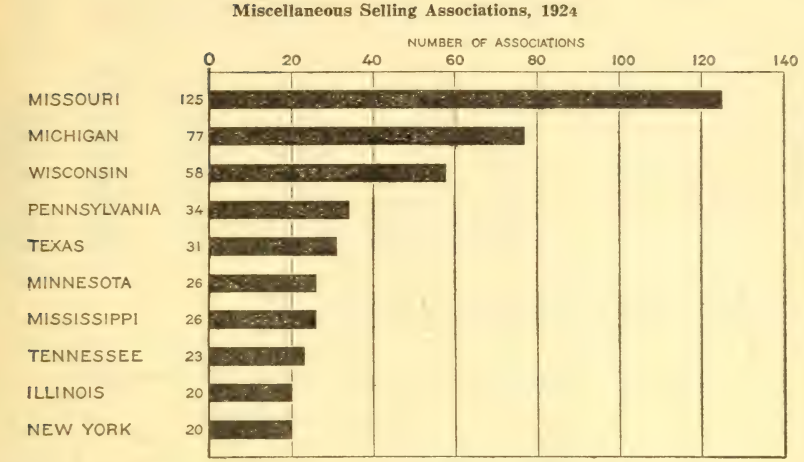

FIG. 36.—More than 700 marketing organizations which could not be included in any of the commodity groups have been grouped together as miscellaneous selling associations. Some of these sell but a single product, honey for instance, whereas others undertake to market any and all products which their members may deliver. (See Table 16.)

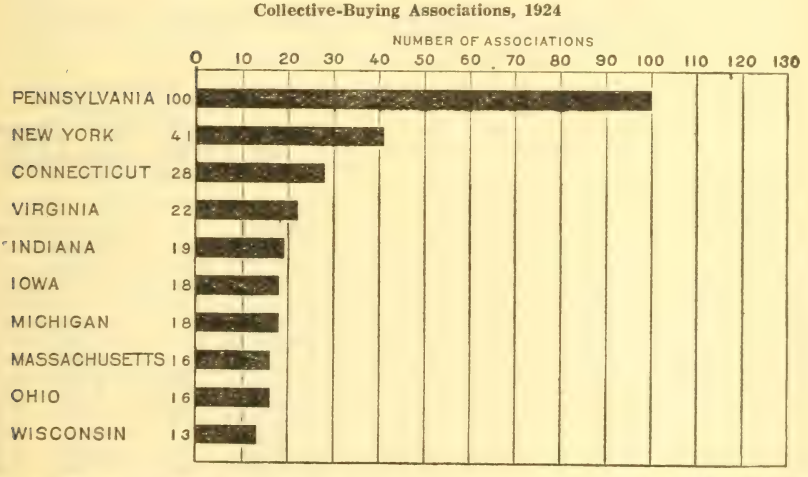

FIG. 37.—Four hundred and thirty of the 10,160 associations reporting were engaged in buying supplies for their members. One hundred of the total number were in Pennsylvania. (See Table 18.)

TABLE 72.—*Sun-Maid Raisin Growers, Fresno, Calif., 1912–1922*

[Data obtained from association]

Year	Tons handled	Gross sales	Received by growers	Per cent of gross sales to growers	Price per pound to growers	Advertising expenditures
					Cents	
1912	24,512	$2,106,450	$1,499,470	71.2	3.059	
1913	59,228	6,187,117	4,275,743	69.1	3.609	
1914	73,635	8,414,660	5,244,725	62.3	3.561	$120,803
1915	98,405	11,969,494	7,370,808	61.6	3.846	240,035
1916	107,039	13,595,227	10,252,597	75.4	4.793	219,592
1917	127,212	16,685,244	13,992,787	83.9	5.499	287,000
1918	149,713	23,200,184	15,530,045	66.9	5.520	291,756
1919	159,262	43,280,254	36,345,138	84.0	11.410	374,147
1920	152,497	[1] 44,293,287	38,416,827	86.7	12.695	1,261,342
1921	123,665	[2] 38,634,053	25,395,730	65.7	7.280	2,139,567
1922	204,630	[3] 30,830,087	13,151,954	42.7	3.214	2,399,704

[1] Including fruit valued at $5,724,360 carried over into the next season.
[2] Including fruit valued at $3,214,328 carried over into the next season.
[3] Including fruit valued at $4,413,552 carried over into the next season.

TABLE 73.—*Florida Citrus Exchange, Tampa, Fla., 1909–1923*

[Compiled from data obtained from Association]

Season	Boxes shipped	Amount of business	Season	Boxes shipped	Amount of business
1909–10	1,482,359	$1,986,361	1916–17	1,289,984	$2,592,867
1910–11	832,310	1,373,311	1917–18	1,184,711	4,099,100
1911–12	741,917	1,639,636	1918–19	2,238,084	7,878,055
1912–13	1,780,301	3,489,389	1919–20	3,770,511	12,706,622
1913–14	1,481,471	2,711,091	1920–21	3,905,841	10,350,478
1914–15	1,945,602	2,762,754	1921–22	3,805,942	12,064,836
1915–16	1,735,422	3,401,427	1922–23	5,205,910	13,823,676

TABLE 74.—*American Cranberry Exchange, New York City, 1909–1923*

[Compiled from data obtained from exchange]

Year	Total crop	Per cent of total shipped by exchange	Average price Cranberry Exchange	Expense of exchange [1]
	Barrels		*Per barrel*	*Per cent*
1909	568,000		$5.15	
1910	544,000		5.63	
1911	446,000			
1912	457,000			
1913	470,000			
1914	638,000		3.97	
1915	454,000			
1916	545,000		6.50	
1917	276,000	56.0	10.40	
1918	352,000	59.6	8.89	
1919	562,000	59.5	7.86	4.702
1920	440,000	64.0	10.39	4.39
1921	371,000	66.0	13.54	4.085
1922	565,000	66.0	10.33	4.35
1923	625,000	63.0	7.95	5.057

[1] Per cent of selling price at shipping point.

TABLE 75.—*South Jersey Farmers' Exchange, Woodstown, N. J., 1909–1923*

[Compiled from reports of exchange]

Year	Capital stock outstanding	Amount of business	Profits carried to surplus
1909	$11,050	$363,249	$5,233
1910	26,330	445,092	4,438
1911	26,330	877,883	11,902
1912	26,805	734,746	17,801
1913	28,410	703,220	15,016
1914	28,470	750,085	15,895
1915	28,470	746,686	14,123
1916	28,470	1,087,347	29,737
1917	28,470	1,602,588	45,970
1918	62,305	1,750,539	18,493
1919	62,305	2,073,687	30,576
1920	125,000	2,844,833	20,037
1921	125,000	1,961,004	15,966
1922	250,000	1,677,954	22,554
1923	250,000	1,553,614	23,281

TABLE 76.—*Spokane Valley Growers Union, Opportunity, Wash., 1912–1921*

[Compiled from data obtained from union]

Year	Total number packed boxes	Total money received	Average gross price received	Total union expense	Cost of boxes	Net to grower
1912	24,512	$17,500	$0.71	$0.239	$0.1025	$0.3685
1913	11,272	15,155	1.34	.225	.09	1.025
1914	26,332	16,062	.61	.32	.0875	.2025
1915	23,064	22,192	.96	.32	.095	.545
1916	70,619	65,675	.93	.28	.09	.56
1917	56,867	65,355	1.15	.35	.13	.67
1918	74,767	104,626	1.40	.30	.155	.945
1919	193,374	372,160	1.92	.40	.16	1.36
1920	205,007	282,257	1.38	.485	.26	.645
1921	158,659	271,388	1.71	.3975	.16	1.1525
Ten-year average			1.212	.3316	.133	.8474

TABLE 77.—*Beaufort Truck Growers Association, Beaufort, S. C., 1915–1922*

[Compiled from data obtained from association]

Year	Number of packages	Gross Sales	Operating expense	Per cent of gross sales
1915	191,725	$301,276	$4,805	1.6
1916	135,551	290,608	5,576	1.9
1917	106,530	557,813	5,678	1.0
1918	160,709	450,584	8,413	1.9
1919	132,007	393,386	8,725	2.2
1920	218,626	949,112	10,856	1.1
1921	338,654	811,812	18,715	2.3
1922	312,644	802,143	25,873	3.2

TABLE 78.—*Door County Fruit Growers Union, Sturgeon Bay, Wis., 1916–1923*

[Compiled from reports of union]

Year	Crates of cherries	Total packages of fruit	Growers' supplies sold	Fruit sales	Total business
1916	31,371	43,832			
1917	104,758	117,174			
1918	32,792	39,625			
1919	205,453	210,211	$38,916	$557,882	$607,483
1920	188,080	211,469	77,762	551,149	629,299
1921	344,695	380,545	101,014	977,999	1,089,201
1922	425,517	495,699	140,694	896,738	1,048,597
1923	238,224	330,686	117,743	434,795	578,494

TABLE 79.—*Eastern Shore of Virginia Produce Exchange, Onley, Va., 1906–1923*

[Compiled from data obtained from exchange]

Year	Packages handled	Total sales	Expenses	Per cent expense of sales	Profit or loss	Patronage dividend	Balance in surplus account Dec. 31
1906	1,043,912	$1,647,414					
1907	1,091,232	2,085,945					
1908	1,325,523	2,489,573					
1909	1,435,382	2,227,791					
1910	2,031,091	2,474,451					
1911	992,188	2,798,616					
1912	1,858,018	3,583,745					
1913	2,850,722	4,643,802					
1914	2,489,955	5,893,942	$233,180	4.0	+$93,225	$46,612	$155,098
1915	2,995,151	3,395,082	197,384	5.8	−18,169	None.	136,948
1916	3,122,970	6,971,786	272,319	3.9	+113,043	56,521	193,550
1917	2,852,150	10,832,571	356,946	3.3	+81,767	45,178	230,189
1918	1,884,795	8,690,426	269,990	3.1	+32,756	21,628	241,317
1919	2,932,327	13,081,545	303,601	2.3	+107,162	61,127	294,672
1920	2,937,784	19,269,890	555,929	2.9	−19,710	None.	247,085
1921	2,853,142	9,156,972	382,786	4.2	+48,746	43,276	246,814
1922	3,212,150	9,199,925	364,641	4.0	+56,755	38,618	265,013
1923	2,808,256	11,638,801	389,455	3.3	+45,969	31,912	276,304

TABLE 80.—*Michigan Potato Growers Exchange, Cadillac, Mich., 1918–1924*

[Compiled from annual reports of exchange]

Year	Number of affiliated locals	Cars of potatoes	Total cars	Gross sales	Operating expense	Average operating expense per car
First (1918–19)	52	2,118	2,227	$1,800,000	$50,485	$22.67
Second (1919–20)	97	2,158	[1] 3,085	4,815,000	95,716	31.03
Third (1920–21)	119	3,250	[2] 3,622		116,121	32.06
Fourth (1921–22)	128	2,439	[3] 2,520	1,777,800	74,893	29.72
Fifth (1922–23)	109	2,922		1,097,900		
Sixth (1923–24)	104	3,122		1,850,121		

[1] Apples, 342 cars; hay, 174 cars; cabbage, 113 cars; etc.
[2] Rye, 120 cars; hay, 69 cars; apples, 56 cars; etc.
[3] Apples, 38 cars; celery, 19 cars; rye, 14 cars; etc.

TABLE 81.—*Turner Centre System, Auburn, Me., 1900–1923*

[Compiled from annual reports of association]

Year	Receipts from all sources [1]	Carried to surplus [2]	Butter fat paid for	Total expenses [3]	Receipts from milk, cream, and eggs	Paid patrons for milk, cream, and eggs	Per cent of receipts paid patrons
			Pounds.				
1900	$543,599	$2,359					
1901	640,187	249					
1902	674,342	5,134					
1903	777,318	4,227					
1904	785,940	6,292					
1905	926,029	5,821					
1906	1,061,948	5,845					
1907	1,290,847	1,689					
1908	1,229,013	3,551					
1909	1,216,200	9,803					
1910	1,650,434	6,318					
1911	1,529,787	12,763					
1912	1,664,039	18,795	3,065,005				
1913	2,056,545	23,201	3,739,417	$262,768	$1,859,400	$1,577,568	84.8
1914	2,236,083	25,081	4,248,378	308,556	2,043,763	1,731,777	84.7
1915	2,638,104	14,843	4,540,809	417,162	2,295,105	1,893,949	82.5
1916	3,057,339	35,038	4,500,363	487,519	2,618,086	[4] 2,126,417	81.2
1917	3,468,987	36,750	4,061,892	603,320	3,201,441	[4] 2,580,481	80.6
1918	4,759,814	23,596	4,132,587	759,391	4,310,455	[4] 3,542,529	82.2
1919	5,605,113	24,229	4,684,213	985,735	4,976,697	[4] 4,055,628	81.5
1920	6,699,476	4,905	4,229,370	1,932,281	5,599,314	[4] 3,737,594	[5] 66.8
1921	4,735,274	94,141	3,816,315	1,538,598	4,236,116	[4] 2,646,543	[5] 62.5
1922	4,182,202	99,287	3,606,203	1,421,027	[6] 3,439,104	[4] 1,980,454	[5] 57.6
1923	5,334,480	61,855	4,117,924	1,655,255	4,307,457	[4] 2,617,231	[5] 60.8

[1] Annual income 1900–1914, taken from 1914 report.
[2] Surplus, 1900–1920, taken from 1922 report.
[3] Including bonus to employees.
[4] Including bonus to patrons.
[5] During recent years the dairy products marketed by the company have been carried a little farther on the road leading to the consumers than formerly. Because of this fact additional services have been rendered, additional expenses incurred, and an increased price charged for the products sold. It is obvious that the producer can not receive so large a percentage of the price paid by the retail establishments as that paid by wholesale. The figures in the above table indicating per cent for the years since 1920 are not comparable with those for the preceding years.
[6] Excluding unexpended patrons' bonus, $14,840.

TABLE 82.—*Twin City Milk Producers Association, St. Paul, Minn., 1918–1923*

[Compiled from reports of association]

Year	Total sales	Milk	Cream	Butter	Cheese
		Pounds	*Pounds*	*Pounds*	*Pounds*
1918	$2,103,183	72,598,801	912,986	168,557	951,648
1919	3,113,408	88,217,181	1,298,834	371,128	1,734,298
1920	3,410,943	97,303,379	2,098,150	743,024	664,710
1921	3,796,807	147,031,313	2,262,668	1,705,593	1,260,749
1922	4,313,275	161,502,871	3,480,503	1,868,334	811,860
1923 [1]	4,810,274	161,308,422	3,547,806	1,973,970	828,074

[1] Nine months only.

TABLE 83.—*Wisconsin Cheese Producers' Federation, Plymouth, Wis., 1914–1923*

[Data from reports of federation]

Year	Number of factories	Cheese handled	Value of cheese handled	Average price per pound to factories	Year	Number of factories	Cheese handled	Value of cheese handled	Average price per pound to factories
		Pounds		*Cents*			*Pounds*		*Cents*
1914	45	6,125,480	$875,941	13.96	1919	120	14,098,021	$4,341,057	30.10
1915	43	7,558,796	1,144,146	14.70	1920	125	13,982,817	3,736,234	25.71
1916	45	7,490,020	1,332,497	17.13	1921	140	15,564,414	2,968,768	18.02
1917	56	8,981,308	2,193,515	23.53	1922	175	18,873,496	4,025,408	19.23
1918	63	8,522,509	2,327,756	26.24	1923		24,602,795	5,959,416	22.62

TABLE 84.—*Tillamook County Creamery Association, Tillamook, Oreg., 1909–1923*

[Compiled from data obtained from association]

Year	Milk handled	Cheese made	Cheese sales	Average price received per pound	Average cost of making per pound	Average price paid for milk
	Pounds	*Pounds*		*Cents*	*Cents*	*100 pounds*
1909	23,416,524	2,541,057	$400,044			
1910	23,639,644	2,506,612	386,135			
1911	24,131,802	2,619,229	358,206			
1912	29,139,514	3,211,004	524,718			
1913	31,566,888	3,505,516	541,748			
1914	33,202,516	3,694,458	568,395			
1915	36,577,206	4,043,875	557,596	13.79	[1] 1.75	
1916	38,603,101	4,335,817	726,911	16.76	[1] 1.75	$1.685
1917	44,901,303	4,974,328	[2] 1,188,052	23.52	2.311	2.44
1918	45,100,156	5,036,900	[2] 1,352,694	26.36	2.685	2.66
1919	53,522,289	6,091,259	[2] 2,007,500	32.40	3.437	3.31
1920	56,749,190	6,436,600	[2] 1,937,956	29.63	4.137	2.935
1921	59,952,123	6,722,893	[2] 1,576,991	23.06		
1922	59,430,293	6,615,957	[2] 1,741,418	25.79	4.002	2.484
1923	63,877,049	7,113,076	1,884,689	26.50		2.56

[1] Estimate. [2] Cheese, cream, butter, market milk.

TABLE 85.—*Barron Cooperative Creamery Co., Barron, Wis., 1902–1922*

[Compiled from annual reports of creamery]

Year	Butter made	Amount received for butter	Paid patrons for butterfat	Percentage of returns paid for butterfat	Year	Butter made	Amount received for butter	Paid patrons for butterfat	Percentage of returns paid for butterfat
	Pounds					*Pounds*			
1902	70,416	$14,593	$13,383	91.7	1913	993,069	$282,943	$260,244	92.0
1903	166,081	34,193	30,938	90.5	1914	1,112,380	318,755	295,031	92.6
1904	320,149	62,807	54,511	86.8	1915	1,319,200	364,203	334,601	91.9
1905	509,925	109,649	97,656	89.1	1916	1,398,820	445,180	417,447	93.8
1906	668,256	148,880	134,435	90.3	1917	1,351,786	552,477	524,472	94.9
1907	679,448	174,070	157,517	90.5	1918	1,501,154	718,238	673,708	93.8
1908	642,697	157,240	140,505	89.4	1919	1,623,562	930,834	885,750	95.2
1909	637,610	173,256	158,182	91.3	1920	1,805,694	1,044,617	977,550	93.6
1910	634,238	177,485	163,491	92.1	1921	2,187,765	869,075	787,639	90.6
1911	665,348	167,943	152,962	91.1	1922	2,507,309	970,826	907,843	93.5
1912	666,556	229,832	212,238	92.3					

TABLE 86.—*Farmers Union Live Stock Commission, Omaha, Nebr., 1921–1923*

[Data obtained from association]

Year	Cattle		Hogs		Sheep		Total		Commissions collected	Operating expenses	Average operating expenses	Savings	
	Cars	Head	Cars	Head	Cars	Head	Cars	Head				Amount	Per cent
											Per car		
1921	2,079	55,840	5,442	374,138	132	20,409	7,653	450,387	$137,252	$46,707	$6.13	$90,545	65.9
1922	2,031	54,897	5,511	366,659	92	15,182	7,634	436,738	128,482	43,104	5.63	85,378	67.3
1923	2,022	53,535	7,861	544,278	296	26,520	10,179	624,333	159,790	48,396	4.75	111,394	71.2

TABLE 87.—*Litchfield Livestock Shipping Association,*[1] *Litchfield, Minn., 1908–1923*

[Compiled from annual reports of association]

Year	Cars	Gross receipts	Returns to farmers	Per-centage	Year	Cars	Gross receipts	Returns to farmers	Per-centage
1908	14	$11,599			1916	184	$284,379		
1909	35	39,569			1917	175	389,610	$377,005	96.8
1910	81	102,163			1918	208	552,775	535,496	96.9
1911	104	114,764			1919	217	625,930	606,432	96.9
1912	146	181,544			1920	210	436,545	417,462	95.6
1913	153	218,116			1921	185	272,805	253,115	92.8
1914	173	256,044			1922	194	298,853	280,789	94.0
1915	172	216,518			1923	236	294,276	272,966	92.8

[1] A typical local livestock shipping association.

TABLE 88.—*Adams County Shippers' Association,*[1] *Quincy, Ill., 1919–1923*

[Data obtained from association]

Year	Number of cars	Number of shippers	Head of live-stock	Amount received	Local charges	Net to producers
1919[2]	101	439	7,679	$211,640	$1,409	$210,231
1920	610	3,335	44,529	1,200,067	12,637	1,187,430
1921	795	4,946	59,775	1,012,051	14,535	997,516
1922	633	4,282	47,230	909,379	12,102	897,277
1923	689	4,360	53,247	836,425	13,943	822,481

[1] A typical county livestock shipping association.
[2] September, October, November, and December.

TABLE 89.—*California Farm Bureau Marketing Association, Bakersfield, Calif., 1919–1923*

[Compiled from data obtained from association]

Year ending Oct. 1	Number of auction sales	Number of hogs	Amount of sales
1919	139	39,388	$1,316,072
1920	195	51,849	1,467,834
1921	181	44,783	940,256
1922	184	43,204	754,247
1923		48,721	716,960

TABLE 90.—*Poultry Producers of Central California, Inc., San Francisco, Calif., 1917–1922*

[Compiled from reports of association]

Year	Number of stock-holders	Cases of eggs handled	Receipts from sales	Net returns to members	Per cent returns of receipts
1917		213,532	$2,382,444	$2,170,626	91.1
1918	1,000	270,313	3,712,523	3,425,717	92.3
1919[1]	1,201	228,677	3,055,337	2,814,737	92.1
1920	2,193	460,303	6,939,542		
1921	2,839	662,598	6,905,802		
1922	3,159	618,475	[2] 5,730,000		

[1] Report covers seven months only. [2] Estimated.

TABLE 91.—*Washington Cooperative Egg and Poultry Association, Seattle, Wash., 1918–1922*

[Data from reports of association]

Year	Number of members	Cases of eggs handled	Operating expenses	Net returns to members for eggs	Average net price	
					Per case	Per dozen
			Per dozen			
1918		4,000				
1919		32,716	$0.016	$519,476	$16.56	$0.552
1920	1,196	85,060	.0153	1,323,308	15.56	.518
1921	2,371	200,287	.0242	1,985,552	10.105	.333
1922	2,800	266,284	.0238	2,229,319		.2791

TABLE 92—*Staple Cotton Cooperative Association, Greenwood, Miss., April 1, 1922–1924*

Year	Number of bales received	Number of bales sold	Number of bales unsold	Amount distributed to growers	Distribution per pound
					Cents
1922	156,264	101,625	54,639	$13,648,649	17.47
1923	167,418	114,711	52,707	18,136,062	21.39
1924	107,338	64,662	42,676	13,875,082	25.96

TABLE 93.—*Fruit Growers Supply Co., Los Angeles, Calif., 1916–1923*

Year	Amount of business	Patronage dividends	Per cent	Year	Amount of business	Patronage dividends	Per cent
1916 [1]	$4,092,865	$159,064	3.9	1920 [1]	$9,837,073	$257,459	2.6
1917 [1]	5,759,080	146,902	2.6	1921 [2]	13,708,556	[4] 2,171,249	15.8
1918 [1]	4,281,969	134,872	3.1	1922 [3]	10,216,544	20,589	.2
1919 [1]	7,337,666	531,689	7.2	1923 [3]	11,339,444	56,461	.5

[1] Fiscal year ending Aug. 31.
[2] Fiscal year ending Oct. 31.
[3] Fiscal year ending Dec. 31.
[4] Partially paid in capital stock.

TABLE 94.—*Eastern States Farmers' Exchange, Springfield, Mass., 1918–1923*

[Compiled from data obtained from exchange]

Year	Tons handled	Amount of business	Year	Tons handled	Amount of business
1918	4,290	$197,287	1921	37,885	$1,567,061
1919	15,196	967,224	1922	51,318	2,020,691
1920	31,808	1,612,009	1923	97,536	4,651,508

TABLE 95.—*River Falls Cooperative Laundry Co., River Falls, Wis., 1921–1923*

[Compiled from data obtained from company]

Year	Capital stock	Real estate, buildings, and equipment	Amount of business	Salaries	Wages	Net gain	Reserve fund
1921	$8,490	$10,300	$13,570	$500	$7,798	$382	$1,233
1922	8,490	10,214	13,227	450	6,883	1,393	182
1923	8,540	10,900	16,426	600	7,861	801	551

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